



AUG 19 2013

L-PI-13-075  
10 CFR 50.55a

U S Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Prairie Island Nuclear Generating Plant Unit 1 and Unit 2  
Docket 50-282 and 50-305  
Renewed License Nos. DPR-42 and DPR-60

Amended Inservice Inspection (ISI) Summary Report, for Unit 1 Cycle 27 and Unit 2  
Cycle 26

Pursuant to 10 CFR 50.55a, Northern States Power Company, a Minnesota corporation, doing business as Xcel Energy (hereafter "NSPM") is submitting amended Inservice Inspection Summary Reports for Unit 1 and Unit 2.

A recent NOS assessment of the Prairie Island ISI program identified a number of inconsistencies in the compliance section of the two most recent Inservice Inspection Summary Reports. In addition, the site also identified a repair/replacement activity had taken place during the Unit 1 Cycle 27 without a Repair/Replacement plan.

Prairie Island is submitting amended Unit 1 Cycle 27 and Unit 2 Cycle 26 ISI Summary Reports with corrections as noted and inclusion of a NIS-2 for the omitted repair/replacement activity.

Summary of Commitments

This letter contains no new commitments and no revisions to existing commitments.

James E. Lynch  
Site Vice President, Prairie Island Nuclear Generating Plant  
Northern States Power Company - Minnesota

Enclosures (2)

cc: Administrator, Region III, USNRC  
Project Manager, PINGP, USNRC  
Resident Inspector, PINGP, USNRC

A047  
MRR

Chief Boiler Inspector, State of Minnesota

**ENCLOSURE 2**

Amended Inservice Inspection Summary Report, Unit 2 Cycle 26

114 Pages Follow

The Unit 2 Cycle 26 Inservice Inspection Summary report is amended with the following revisions.

The Section 3 Code Compliance Summary is revised to make the following corrections:

Item #	Description	Resolution
B12.20	Inconsistency between total required (1) and total scheduled or completed (0).	Corrected
B12.50	Inconsistency between percent required (36%) and the number scheduled (1) or completed (3).	Corrected

In addition to the above corrections, several editorial changes were made to clarify the intent of the table. Affected pages of the Code Compliance Summary table are attached.

The original Inservice Inspection Summary Report submitted August 23, 2012 is attached for reference.

Prepared by: Tom Downing Date: 7-10-2013  
ISI Program Engineer, Xcel Energy  
Tom Downing

Approved by: Peter Brunsgaard Date: 7-16-2013  
Program Engineering Manager, Xcel Energy.  
Peter Brunsgaard

Concur: Gerald D. Daly Date: 10 JUL 13  
Authorized Nuclear Inservice Inspector  
Gerald Daly

**Prairie Island Nuclear Plant  
Completion Code Compliance Summary - 4th Interval  
ISI - Code Edition - 1998, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required for Interval	Total# Required for Interval	Total Sched	Total# Comp to Date.	% Comp to Date.	Notes
ACC NOZ	NRCIN9105		8	100%	8	8	8	N/A	Accumulator nozzles owner elected examination.
<b>Total:</b>			8		8	8	8	N/A	
B-A	B1.11		3	100%	3	3	0	N/A	RV shell circ welds. Deferral to end of interval allowed per IWB-2500-1
B-A	B1.21		1	100%	1	1	0	N/A	RV bottom head weld. Deferral to end of interval allowed per IWB-2500-1
B-A	B1.30	N-623	1	100%	1	1	0	N/A	RV shell to flange weld. Deferral to end of interval allowed per N-623
<b>Total:</b>			5		5	5	0	N/A	
B-B	B2.11		2	100%	2	0	2	100%	Pressurizer circ welds
B-B	B2.12		2	100%	2	0	2	100%	Pressurizer long welds
B-B	B2.40		2	50%	1	0	1	100%	SG tubesheet to head. One of each similar vessel.
B-B	B2.60	RR-4-2	3	N/A	18	3	15	N/A	Class 1 tubesheet to head HX. VT-2 each outage per RR-4-2. <b>Not included in count.</b>
<b>Total:</b>			9		5	0	5	100%	
B-D	B3.100		6	100%	6	6	0	N/A	RV nozzle inside radius. Deferral to end of interval allowed per IWB-2500-1 <b>Not included in count.</b>
B-D	B3.120		5	100%	5	0	5	100%	Pressurizer nozzle full pen welds.
B-D	B3.140		4	100%	4	2	2	50%	SG tubesheet to head. One of each similar vessel.
B-D	B3.160	RR-4-2	6	N/A	36	6	30	N/A	Class 1 HX full pen nozzles. VT-2 each outage per RR-4-2. <b>Not included in count.</b>
B-D	B3.90		6	100%	6	6	0	N/A	Vessel full pen nozzle welds. Deferral to end of interval allowed per code case. <b>Not included in count.</b>
<b>Total:</b>			27		9	2	7	78%	
B-E	B4.30	N-729-1	1	N/A	N/A	N/A	1		Reactor Vessel Closure Head Bare Metal Examination. Augmented Examination required every 3rd outage. <b>Not included in count.</b>
<b>Total:</b>			1		N/A	N/A	1	N/A	
B-G-1	B6.10		3	100%	3	1	2	N/A	RV nuts. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.
B-G-1	B6.180		2	N/A	0	0	0	N/A	Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 24 RCP bolts. Only required when required by B-L-2.
B-G-1	B6.190		2	N/A	0	0	0	N/A	Flange surface only required when disassembled
B-G-1	B6.30		3	100%	3	1	2	N/A	RV studs. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.

B-G-1	B6.40	1	100%	1	1	0	N/A	RV ligaments. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 48.
B-G-1	B6.50	3	100%	3	1	2	N/A	RV washers. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.
<b>Total:</b>		<b>14</b>		<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
B-G-2	B7.20	1	100%	1	0	1	100%	Pressurizer studs.
B-G-2	B7.30	4	50%	2	0	2	100%	SG studs.
B-G-2	B7.50	9	N/A	0	0	3	N/A	Flange bolting only if disassembled or bolting removed. <b>Not included in count.</b>
B-G-2	B7.60	4	N/A	0	0	1	N/A	Pump bolting only required when required by B-L-2. <b>Not included in count.</b>
B-G-2	B7.70	18	N/A	0	0	6	N/A	Valve bolting only required when required by B-M-2. <b>Not included in count.</b>
<b>Total:</b>		<b>36</b>		<b>3</b>	<b>0</b>	<b>3</b>	<b>100%</b>	Total Percentage completed for B7.20 and B7.30. Other items NA.
B-K	B10.10	6	N/A	2	1	1	N/A	Vessel attachments only one attachment of one of multiple similar vessels. <b>Not included in count.</b>
B-K	B10.20	41	10%	5	0	5	100%	Pipe attachments.
<b>Total:</b>		<b>47</b>		<b>5</b>	<b>0</b>	<b>5</b>	<b>100%</b>	
B-L-1	B12.10	2	50%	1	1	0	N/A	Pump casing welds limited to one pump in each group of similar pumps.
<b>Total:</b>		<b>2</b>		<b>1</b>	<b>1</b>	<b>0</b>	<b>N/A</b>	
B-L-2	B12.20	2	N/A	0	0	0	N/A	Pump casing limited to one pump in each group of similar pumps. Only required when disassembled.
<b>Total:</b>		<b>2</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>	
B-M-2	B12.50	17	N/A	N/A	1	3	N/A	Valve body interior limited to one valve in each group. Only required when disassembled.
<b>Total:</b>		<b>17</b>			<b>1</b>	<b>3</b>	<b>N/A</b>	
B-N-1	B13.10	1	100%	3	1	2	N/A	RV interior all accessible areas to be examined once each period.
<b>Total:</b>		<b>1</b>		<b>1</b>	<b>1</b>	<b>2</b>	<b>N/A</b>	
B-N-2	B13.50	1	100%	1	1	0	N/A	RV interior attachments beltline. Deferral to end of interval allowed per IWB-2500-1
B-N-2	B13.60	1	100%	1	1	0	N/A	RV interior attachments not beltline. Deferral to end of interval allowed per IWB-2500-1
<b>Total:</b>		<b>2</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>N/A</b>	
B-N-3	B13.70	1	100%	1	1	0	N/A	Core support structure. Deferral to end of interval allowed per IWB-2500-1
<b>Total:</b>		<b>1</b>		<b>1</b>	<b>1</b>	<b>0</b>	<b>N/A</b>	
B-O	B14.10	66	10%	4	0	4	100%	Control rod welds. 20 peripheral CRDMs with 2 welds each. All welds had preservice exam as part of new RV head. Deferral allowed per IWB-2412(a)3
<b>Total:</b>		<b>66</b>		<b>4</b>	<b>0</b>	<b>4</b>	<b>100%</b>	
B-P	B15.00	2	100%	12	2	10	N/A	Two pressure test procedures each outage.

Total:			2	12	2	10		N/A	
B-Q	B16.20		2	N/A	0	0	0	N/A	SG tubing per Technical Requirements Manual
Total:			2		0	0	0	N/A	
C-A	C1.10		8	50%	4	1	3	75%	Welds at gross structural discontinuity only. The examinations are limited to one vessel among a group of vessels of similar design, size, and service.
C-A	C1.20		4	50%	2	1	1	50%	Head circ welds.
C-A	C1.30		2	50%	1	1	0	0%	Tubesheet to shell welds.
Total:			14		7	3	4	57%	
C-B	C2.21		4	50%	2	0	2	100%	Nozzle to shell
C-B	C2.22		4	50%	2	0	2	100%	Nozzle inside radius
C-B	C2.31		4	50%	2	1	1	50%	Reinforcing plates.
Total:			12		6	1	5	84%	
C-C	C3.10		4	50%	2	0	2	100%	Vessel attachment welds. One of similar vessels.
C-C	C3.20		99	10%	10	1	9	90%	Piping weld attachments
C-C	C3.30		16	10%	2	0	2	100%	Pump weld attachments
C-C	C3.40		2	10%	1	1	0	0%	Valve weld attachments
Total:			121		15	2	13	87%	
C-H	C7.00	Multiple	12	100%	36	6	30		Class 2 pressure tests completed once each period. Some completed after outage.
Total:			12		36	6	30		
D-A	D1.10		8	50%	4	0	4	100%	Pressure Vessel Welded Attachments. For multiple vessels of similar design and service only the welds of one vessel need be selected for examination.
D-A	D1.20		96	10%	10	1	9	90%	Piping Welded Attachments
Total:			104		14	1	13	93%	
D-B	D2.10	Multiple	4	100%	12	8	4		Class 3 pressure tests completed once each period. Some completed after outage.
Total:			4		12	8	4		
F-A	F1.10a		70	25%	18	3	15	83%	Class 1 pipe supports one direction
F-A	F1.10b		76	25%	19	3	16	84%	Class 1 pipe supports multidirection
F-A	F1.10c		65	25%	17	5	12	71%	Class 1 pipe supports thermal movement (springs).
F-A	F1.20a		118	15%	18	2	16	89%	Class 2 pipe supports one direction
F-A	F1.20b		81	15%	13	2	11	85%	Class 2 pipe supports multidirection
F-A	F1.20c		61	15%	10	1	9	90%	Class 2 pipe supports thermal movement (springs).
F-A	F1.30a		174	10%	18	1	17	94%	Class 3 pipe supports one direction
F-A	F1.30b		203	10%	21	3	18	86%	Class 3 pipe supports multidirection
F-A	F1.30c		49	10%	5	0	5	100%	Class 3 pipe supports thermal movement (springs).

F-A	F1.40	74	37	1	39	N/A	Other supports Class 1,2,3, MC. Visual VT-3 examination of 100% of all non-exempt Supports, other than piping supports. For multiple components, the supports of only one of the multiple components are required to be examined. <b>Not included in count.</b>
<b>Total:</b>		<b>971</b>	<b>139</b>	<b>20</b>	<b>119</b>	<b>86%</b>	
R-A	R1.11-2	85	25%	21	0	22	100% RI-ISI Thermal fatigue high risk
R-A	R1.11-5	48	10%	5	1	5	100% RI-ISI Thermal fatigue medium risk
R-A	R1.15-2	2	25%	1	0	1	100% PWSSC high risk (pressurizer nozzle)
R-A	R1.16-2	4	25%	1	1	1	100% SCC high risk
R-A	R1.16-5	4	10%	1	0	1	100% SCC medium risk
R-A	R1.19-5	4	10%	1	0	1	100% ECSCC medium risk
R-A	R1.20-4	782	10%	78	0	80	100% Not subject to damage medium risk
R-A	R1.20-6	696	0%	0	0	0	100% Not subject to damage low risk
R-A	R1.20-7	33	0%	0	0	0	100% Not subject to damage low risk
<b>Total:</b>		<b>1658</b>		<b>108</b>	<b>2</b>	<b>111</b>	<b>100%</b>





AUG 23 2012

L-PI-12-077  
10 CFR 50.55a

U S Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Prairie Island Nuclear Generating Plant Unit 2  
Docket 50-306  
Renewed License No. DPR-60

Inservice Inspection Summary Report, Interval 4, Period 3, Outage 1, Refueling Outage  
Dates: 02-21-2012 to 05-29-2012 Unit 2, Fuel Cycle 26: 05-26-2010 to 05-29-2012

During the 2012 Prairie Island Nuclear Generating Plant (PINGP) Unit 2 refueling outage, an inservice inspection (ISI) examination for the third period of the fourth interval was conducted. Enclosure 1 is a copy of the ISI examination summary report for this period.

The summary report is being submitted in accordance with the PINGP American Society of Mechanical Engineers (ASME) Code Section XI ISI Program and is intended to satisfy the inspection reporting requirements contained in IWA-6230 of the ASME Boiler and Pressure Vessel Code.

The report identifies components examined; the examination methods used; the examination number; and summarizes the results. All anomalies were either corrected or an engineering evaluation was performed to accept "as-is" conditions. A description of repair/replacement activities and the corresponding work order numbers are provided in Section 8 of the enclosure.

#### Summary of Commitments

This letter contains no new commitments and no revisions to existing commitments.

A handwritten signature in cursive script, appearing to read 'J. Molden'.

James E. Molden  
Site Vice President, Prairie Island Nuclear Generating Plant  
Northern States Power Company - Minnesota

Enclosure

cc: Administrator, Region III, USNRC  
Project Manager, PINGP, USNRC  
Resident Inspector, PINGP, USNRC  
Chief Boiler Inspector, State of Minnesota

**ENCLOSURE 1**

Inservice Inspection Summary Report, Interval 4, Period 3, Outage 1,  
Refueling Outage Dates: 02-21-2012 to 05-29-2012  
Unit 2, Fuel Cycle 26: 05-26-2010 to 05-29-2012

106 Pages Follow

NSPM  
PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
1717 WAKONADE DRIVE EAST  
WELCH, MINNESOTA 55089

INSERVICE INSPECTION SUMMARY REPORT  
INTERVAL 4, PERIOD 3, OUTAGE 1  
REFUELING OUTAGE DATES: 02-21-2012 TO 05-29-2012  
UNIT 2, FUEL CYCLE 26: 05-26-2010 TO 05-29-2012

COMMERCIAL SERVICE DATE: DECEMBER 21, 1974

Prepared by: Thomas Downing Date: 8/17/2012  
ISI Program Engineer, Prairie Island  
Tom Downing

Reviewed by: TRD for Ron Clow Date: 8-20-12  
Repair/Replacement Program Engineer, Prairie Island  
Ron Clow

Reviewed by: Jerry Wren Date: 8-20-12  
NDE Level III, Prairie Island  
Jerry Wren

Reviewed by: Jeff Ricker Date: 17 Aug 2012  
Program Engineering Supervisor, Prairie Island  
Jeff Ricker

Approved by: Dave Potter Date: 8-20-2012  
Program Engineering Manager, Prairie Island  
Dave Potter

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Section 1. Discussion

1.0 INTRODUCTION

This summary report identifies the components examined, the examination methods used, the examination number and summarizes the results of examinations performed during the 3<sup>rd</sup> period of the 4th interval, unit 2 fuel cycle 26. The 4th inspection interval is based on the examination requirements of the ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition with 2000 Addenda within the limitations and modifications required by Title 10 of the Code of Federal Regulation, Part 50.55a.

2.0 PERSONNEL

Visual and nondestructive examinations were performed by Xcel Energy Company and Lambert Macgill & Thomas (LMT). The Hartford Steam Boiler Inspection and Insurance Company of Connecticut provided the Authorized Inspection services. Examination personnel certifications are maintained on file by Xcel Energy Company.

3.0 INSPECTION SUMMARY

Examination results indicate that plant system's integrity has been maintained.

Section 3 contains the Class 1 and 2 components examined, the examination number and summary of the examination results performed during unit 2 cycle 26. The number and percentage of scheduled examinations or tests completed are also included in this section as required by IWA-6220(f). There were no Class 1 or 2 examinations with indications requiring scope expansion or repair/replacement. There was one limited volumetric examination (AR 1343795) of a class 1 valve to reducer weld limited by geometry. A Relief request will be submitted for the limitation as required by 10 CFR 50.55a(g)(5)(iv).

Section 4 contains the Class MC components examined, the examination number and summary of the examination results performed during unit 2 cycle 26. The second IWE interval, September 10, 2008 through September 9, 2018, is based on the examination requirements of the 2001 Edition with 2003 Addenda of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI with limitations and modifications as required by Title 10 of the Code of Federal Regulation, Part 50.55a. The number and percentage of examinations or tests completed are also included in this section as required by IWA-6220(f). There were no indications that required repair/replacement or successive inspections under IWE-2420. This section includes an evaluation of inaccessible areas as required by 10CFR50.55a(b)(2)(ix)(A) to

address indication of refueling cavity leakage in contact with the steel containment vessel (AR1332452).

Section 5 contains a summary of pressure tests completed or initiated during the cycle including pressure tests completed since the last 90 day summary report, but before the end of the preceding period. All indications of leakage were evaluated and/or corrective measures performed as required by IWA-5250, IWB-3142 and IWC-3132.

Section 6 contains the Snubber inspection results. There were no visual snubber failures. All snubbers that under went functional testing had satisfactory results.

Section 7 addresses the Eddy Current examination results of the 21 and 22 Steam Generators tubes.

Section 8 contains 36 Repair/Replacement activities completed in the 4th Interval unit 2 cycle 26.

#### 4.0 EXAMINATION REPORTS, EQUIPMENT AND MATERIALS

The inservice inspection reports in Sections 3 and 4 contain references to procedures, equipment, and materials used to complete the specific examinations. Copies of the examination reports, examination procedures, and equipment records are available from Xcel Energy Company.

Sections 3 and 4 may contain several abbreviations which are identified below:

CAP = Corrective Action Process

CE = Condition Evaluation

GEO = Geometry, evaluation of indication

OPR = Operability Recommendation

IN = Information Notice

IND = Indication requires further evaluation

NAD = No Apparent Defects

SE = Safety Evaluation

WO = Work Order

WR = Work Request

NSPM  
PRAIRIE ISLAND UNIT 2 CYCLE 26

INSERVICE INSPECTION  
SUMMARY REPORT

Section 2. NIS-1 (2 pages attached)



**NIS-1**  
**OWNER'S REPORT FOR INSERVICE INSPECTIONS**  
(As required by the Provisions of the ASME Code Rules)

1. Owner: NSPM d/b/a Xcel Energy, 414 Nicollet Mall, Minneapolis, Minnesota 55401  
(Name and Address of Owner)

2. Plant Prairie Island Nuclear Generating Plant, 1717 Wakonade Drive E, Welch, Minnesota 55089  
(Name and Address of Plant)

3. Plant Unit 2

4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 12/21/1974

6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer of Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel Head	Mitsubishi Heavy Inds.	---	---	---
Reactor Vessel	Creuot-Loire	687	MINN-200-51	---
Pressurizer	Westinghouse	1191	---	68-57
21 Steam Generator	Westinghouse	1181	---	68-39
22 Steam Generator	Framatome ANP	1182	---	68-40
21 Reactor Coolant Pump	Westinghouse	W510	---	---
22 Reactor Coolant Pump	Westinghouse	W515	---	---
21 RHR Heat Exchanger	Joseph Oats & Sons	1817-1C	---	342
22 RHR Heat Exchanger	Joseph Oats & Sons	1817-1D	---	343
21 RHR Pump	Byron Jackson	---	---	---
22 RHR Pump	Byron Jackson	---	---	---
21 Safety Injection Pump	Bingham	---	---	---
22 Safety Injection Pump	Bingham	---	---	---
21 Accumulator Tank	Delta Southern	41037-68-1	---	2575
22 Accumulator Tank	Delta Southern	41037-69-1	---	2576
Unit 2 Containment	Chicago Bridge & Iron	---	---	---

8. Examination Dates: 05/26/2010 to 05/29/2012

9. Inspection Period Identification: (3rd Period) 12/21/2011 to 12/20/2014

10. Inspection Interval Identification: (4th Interval) 12/21/2004 to 12/20/2014

11. Applicable Edition of Section XI: 1998 Edition with 2000 Addenda (2001 Edition, 2003 Addenda IWE)

12. Date/Revision of Inspection Plan: 4/28/12, Revision 11

13. Abstract of Examination and Tests. Include a list of examinations and tests and statement concerning status of work required for the Inspection Plan

See Sections 3 through 7

14. Abstract of Results of Examinations and Tests

See Sections 3 through 7

15. Abstract of Corrective Measures

See Sections 3 through 6

We certify that a) that the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date \_\_\_\_\_

Date 8/20/2012 Signed Tom Downing  
By Tom Downing  
Owner

**CERTIFICATE OF INSERVICE INSPECTION**

I, undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or provinces of

Minnesota and employed by Hartford Steam Boiler Inspection and Insurance Company of

Connecticut have inspected the components described in this Owner's Report during the period

05/26/2010 to 05/29/2012, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes and any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Inspector's Name David R. Daley Commissions 12085 ANI MN 21924  
National Board, State, Province, and Endorsements

Date: 20 AUG 12

Section 3. ISI Examinations (13 pages attached)

The following table summarizes the ISI inspections performed in cycle 26. Inspections are listed by class, category and site summary number. Inspections that identified indications or were limited are **bold** with a reference to the corrective action process (AR) number as appropriate. There was no Class 1 or 2 examinations with indications requiring scope expansion or repair/replacement. There was one Limited Examination of a class 1 valve to reducer weld limited by geometry. A Relief request will be submitted as required by 10 CFR 50.55a(g)(5)(iv). The second table lists the number and percentage of examinations or tests completed as required by IWA-6220(f).

**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012**  
**Inservice Inspection Report**  
**Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):  
 5. Commercial Service Date: 12/21/1974  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
<b>Class 1</b>	<b>Category B-B</b>	<b>(Pressure Retaining Welds in Vessels other than Reactor Vessels)</b>							
501474	W- 1	Vertical Shell Weld	B2.12	FP-PE-NDE-406	UT / 2012U042 / NAD	RC	2-ISI-36	4/12/2012	ISI
501482	W- 1	Cap-Integral Tubesht	B2.60	FP-PE-NDE-520	VT / 2012V061 / NAD	VC	2-ISI-34	5/23/2012	ISI
501536	W- 2	Cap-Integral Tubesht	B2.60	FP-PE-NDE-520	VT / 2012V062 / NAD	VC	2-ISI-34	5/23/2012	ISI
501558	W- 3	Bottom Head to Shell	B2.11	FP-PE-NDE-406	UT / 2012U041 / NAD	RC	2-ISI-36	4/12/2012	ISI
501594	W- 3	Cap-Integral Tubesht	B2.60	FP-PE-NDE-520	VT / 2012V063 / NAD	VC	2-ISI-34	5/23/2012	ISI
<b>Class 1</b>	<b>Category B-D</b>	<b>( Full Penetration Welds of Nozzle in Vessels)</b>							
501409	N- 2 IR	Spray Nozzle	B3.120	SWI NDE-UT-14	UT / 2012U036 / NAD	RC	2-ISI-35	3/20/2012	ISI
505001	N- 1 IR	Surge Nozzle	B3.120	SWI NDE-UT-14	UT / 2012U012 / NAD	RC	2-ISI-35	3/2/2012	ISI
505024	N- 1 IR	Nozzle Inner Radius	B3.160	FP-PE-NDE-520	VT / 2012V064 / NAD	VC	2-ISI-34	5/23/2012	ISI
505025	N- 2 IR	Nozzle Inner Radius	B3.160	FP-PE-NDE-520	VT / 2012V065 / NAD	VC	2-ISI-34	5/23/2012	ISI
505026	N- 3 IR	Nozzle Inner Radius	B3.160	FP-PE-NDE-520	VT / 2012V066 / NAD	VC	2-ISI-34	5/23/2012	ISI
505027	N- 4 IR	Nozzle Inner Radius	B3.160	FP-PE-NDE-520	VT / 2012V067 / NAD	VC	2-ISI-34	5/23/2012	ISI
505028	N- 5 IR	Nozzle Inner Radius	B3.160	FP-PE-NDE-520	VT / 2012V068 / NAD	VC	2-ISI-34	5/23/2012	ISI
505029	N- 6 IR	Nozzle Inner Radius	B3.160	FP-PE-NDE-520	VT / 2012V069 / NAD	VC	2-ISI-34	5/23/2012	ISI
<b>Class 1</b>	<b>Category B-G-2</b>	<b>( Pressure Retaining Bolting, 2 inch and Less in Diameter)</b>							

**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012  
Inservice Inspection Report  
Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy  
2. Plant: Prairie Island Nuclear Generating Plant  
3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):  
5. Commercial Service Date: 12/21/1974  
6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
500724	B- 1	Inlet Manway Studs	B7.30	FP-PE-NDE-510	VT / 2012V033 / NAD	SG	2-ISI-37A	3/22/2012	PSI
				FP-PE-NDE-510	VT / 2012V036 / NAD	SG	2-ISI-37A	3/23/2012	ISI
500725	B- 1	Inlet Manway Studs	B7.30	FP-PE-NDE-510	VT / 2012V034 / NAD	SG	2-ISI-37B	3/22/2012	PSI
				FP-PE-NDE-510	VT / 2012V037 / NAD	SG	2-ISI-37B	3/23/2012	ISI
501013	B- 1	Manway Studs	B7.20	FP-PE-NDE-510	VT / 2011V096 / NAD	RC	2-ISI-35	10/15/2011	PSI
				FP-PE-NDE-510	VT / 2012V026 / NAD	RC	2-ISI-35	3/8/2012	ISI
501019	B- 2	Outlet Manway Studs (16)	B7.30	FP-PE-NDE-510	VT / 2012V035 / NAD	SG	2-ISI-37B	3/22/2012	PSI
<b>Class 1</b>	<b>Category B-K</b>	<b>(Integral Attachments to Vessels, Piping, Pumps &amp; Valves)</b>							
520219	H-3/IA	Int. Attach.[Support]	B10.20	SWI NDE-PT-1	PT / 2012P001 / NAD	RC	2-ISI-29	3/7/2012	ISI
521730	H-1/IA	Int. Attach[Base]	B10.10	SWI NDE-MT-1	MT / 2012M001 / NAD	RC	2-ISI-36	3/7/2012	ISI
<b>Class 1</b>	<b>Category B-P</b>	<b>(All Pressure Retaining Components) See section 5 for pressure tests.</b>							
<b>Class 1</b>	<b>Category F-A</b>	<b>(Supports)</b>							
500019	H- 3	Support	F1.10a	FP-PE-NDE-530	VT / 2012V025 / NAD	RC	2-ISI-29	3/7/2012	ISI
500272	H- 5	Restraint	F1.10a	FP-PE-NDE-530	VT / 2012V009 / NAD	RC	2-ISI-20A	2/25/2012	ISI
500273	H- 1	Restraint	F1.10b	FP-PE-NDE-530	VT / 2012V011 / NAD	RC	2-ISI-20A	2/25/2012	ISI
501041	H- 2	Restraint	F1.10a	FP-PE-NDE-530	VT / 2012V010 / NAD	VC	2-ISI-13E	2/25/2012	ISI
501061	H- 6	Snubber/Clamp	F1.10c	FP-PE-NDE-530	VT / 2012V048 / NAD	RC	2-ISI-13A	4/4/2012	PSI

**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012  
Inservice Inspection Report  
Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy  
2. Plant: Prairie Island Nuclear Generating Plant  
3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):  
5. Commercial Service Date: 12/21/1974  
6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
501064	H-5	Spring/Clamp	F1.10c	FP-PE-NDE-530	VT / 2012V015 / NAD	RC	2-ISI-24	2/27/2012	ISI
501099	H-3	Restraint	F1.10b	FP-PE-NDE-530	VT / 2012V016 / NAD	SI	2-ISI-23	2/27/2012	ISI
501101	H-2	Restraint	F1.10b	FP-PE-NDE-530	VT / 2011V095 / NAD	SI	2-ISI-5	10/14/2011	PSI
501162	H-5	Seismic Anchor	F1.10b	FP-PE-NDE-530	VT / 2012V014 / NAD	RC	2-ISI-7A	2/27/2012	ISI
501174	H-3	Spring	F1.10c	FP-PE-NDE-530	VT / 2012V049 / NAD	VC	2-ISI-12C	3/23/2012	PSI
501259	H-2	Snubber/Clamp	F1.10c	FP-PE-NDE-530	VT / 2012V038 / NAD	RH	2-ISI-10B	3/23/2012	PSI
501268	H-3	Snubber/Clamp	F1.10c	FP-PE-NDE-530	VT / 2012V044 / NAD	SI	2-ISI-22A	3/27/2012	PSI
501273	H-4	Snubber/Clamp	F1.10c	FP-PE-NDE-530	VT / 2012V041 / NAD	SI	2-ISI-22B	3/24/2012	PSI
501363	H-6A	Double Snubber/Clamp	F1.10c	FP-PE-NDE-530	VT / 2012V045 / NAD	SI	2-ISI-11	3/27/2012	PSI
501730	H-1	Base	F1.40	FP-PE-NDE-530	VT / 2012V024 / NAD	RC	2-ISI-36	3/7/2012	ISI
502645	H-3	Snubber 3	F1.40	FP-PE-NDE-530	VT / 2012V029 / NAD	SG	2-ISI-37C	3/8/2012	PSI
502649	H-3	Snubber 3	F1.40	FP-PE-NDE-530	VT / 2012V057 / NAD	SG	2-ISI-37D	5/11/2012	PSI
<b>Class 1</b>	<b>Category R-A</b>	<b>(Risk-Informed Piping Examinations)</b>							
501512-RI	W-9	Pipe to Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U024 / NAD	RC	2-ISI-6	3/12/2012	ISI
501524-RI	W-7	45 Elbow to Reducer	R1.16-5	FP-PE-NDE-402	UT / 2012U023 / NAD	SI	2-ISI-23	3/12/2012	ISI

**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012  
Inservice Inspection Report  
Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy
2. Plant: Prairie Island Nuclear Generating Plant
3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):
5. Commercial Service Date: 12/21/1974
6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
501576-RI	W- 8	Reducer to Valve	R1.16-5	FP-PE-NDE-402	UT / 2012U021 / NAD	RC	2-ISI-23	3/12/2012	ISI
Comments:	Limited examination will require Relief Request. See AR 1343795.								
501592-RI	W- 4	Pipe To Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U019 / NAD	RC	2-ISI-30A	2/29/2012	ISI
501627-RI	W- 5	Pipe to 45 Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U039 / NAD	RC	2-ISI-7E	3/9/2012	ISI
501639-RI	W- 6	Elbow To Reducer	R1.20-4	FP-PE-NDE-402	UT / 2012U018 / NAD	RC	2-ISI-29	2/29/2012	ISI
501676-RI	W- 6	45 Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U022 / NAD	RC	2-ISI-7E	3/9/2012	ISI
501680-RI	W- 6	Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U027 / NAD	RC	2-ISI-17	3/13/2012	ISI
501844-RI	W- 9	Pipe To 45 Elbow	R1.11-2	FP-PE-NDE-402	UT / 2012U031 / NAD	RC	2-ISI-31	3/16/2012	ISI
501885-RI	W-10	45 Elbow To 30 Elbow	R1.11-2	FP-PE-NDE-402	UT / 2012U030 / NAD	RC	2-ISI-31	3/16/2012	ISI
502071-RI	W-14	Bent Pipe To Bent Pipe	R1.11-2	FP-PE-NDE-402	UT / 2012U035 / IND	RC	2-ISI-31	3/16/2012	ISI
				FP-PE-NDE-403	UT / 2012U043 / NAD	RC	2-ISI-31	3/24/2012	ISI
Comments:	Fabrication flaw outside exam volume accepted by code of construction. Dispositioned on 2012U043.								
502111-RI	W-15	Bent Pipe To Reducer	R1.11-2	FP-PE-NDE-402	UT / 2012U020 / NAD	RC	2-ISI-31	2/29/2012	ISI
502192-RI	W- 1	Pipe to Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U026 / NAD	RC	2-ISI-7B	3/13/2012	ISI
502229-RI	W-18	Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U025 / NAD	RC	2-ISI-14	3/12/2012	ISI
502248-RI	W-19	Pipe To Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U028 / NAD	RC	2-ISI-3	3/13/2012	ISI

**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012  
Inservice Inspection Report  
Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy  
2. Plant: Prairie Island Nuclear Generating Plant  
3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):  
5. Commercial Service Date: 12/21/1974  
6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
502269-RI	W-20	Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U029 / NAD	RC	2-ISI-3	3/13/2012	ISI
<b>Class 2</b>	<b>Category C-B (Pressure Retaining Nozzle Welds in Vessels)</b>								
502680	N-4 IR	MS Nozzle Inner Radi	C2.22	SWI NDE-UT-5	UT / 2012U017 / NAD	SG	2-ISI-37B	3/5/2012	ISI
<b>Class 2</b>	<b>Category C-C (Welded Attachments for Vessels, Piping, Pumps &amp; Valves)</b>								
520317	H-18/IA	Int. Attach[Double Spring Hanger]	C3.20	SWI NDE-MT-1	MT / 2012M003 / NAD	AF	2-ISI-48A	3/23/2012	ISI
520671	H-4/IA	Int. Attach[Support]	C3.20	SWI NDE-MT-1	MT / 2012M002 / NAD	FW	2-ISI-48	3/10/2012	ISI
520988	H-3/IA	Int. Attach[Seismic Restraint]	C3.20	SWI NDE-MT-1	MT / 2012M004 / NAD	MS	2-ISI-47A	4/2/2012	ISI
<b>Class 2</b>	<b>Category C-H (All Pressure Retaining Components) See section 5 for pressure tests.</b>								
<b>Class 2</b>	<b>Category F-A (Supports)</b>								
500307	H-8	Single Support	F1.20b	FP-PE-NDE-530	VT / 2012V027 / NAD	AF	2-ISI-48A	3/8/2012	ISI
500374	H-5	Pump Base (Slide)	F1.40	FP-PE-NDE-530	VT / 2012V030 / NAD	RH	2-ISI-51	3/14/2012	ISI
500671	H-4	Support	F1.20a	FP-PE-NDE-530	VT / 2012V028 / NAD	FW	2-ISI-48	3/10/2012	ISI
500985	H-2	Seismic Restraint	F1.20a	FP-PE-NDE-530	VT / 2012V012 / IND	MS	2-ISI-47A	2/27/2012	ISI
				FP-PE-NDE-530	VT / 2012V051 / IND	MS	2-ISI-47A	4/10/2012	ISI
<b>Comments:</b>	<b>2012V012 indications previously evaluated and found acceptable (see sharepoint AR 93701). 2012V051 indications evaluated on AR 1328673.</b>								
500988	H-3	Seismic Restraint	F1.20a	FP-PE-NDE-530	VT / 2012V013 / NAD	MS	2-ISI-47A	2/27/2012	ISI



**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012  
Inservice Inspection Report  
Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy  
2. Plant: Prairie Island Nuclear Generating Plant  
3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):  
5. Commercial Service Date: 12/21/1974  
6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
500990	H- 8	Double Snubber/Clamp	F1.20c	FP-PE-NDE-530	VT / 2012V046 / NAD	MS	2-ISI-46A	3/27/2012	PSI
501182	H- 2	Spring Hanger	F1.20c	FP-PE-NDE-530	VT / 2012V040 / NAD	RH	2-ISI-52	3/24/2012	ISI
501238	H- 3	Snubber/Clamp	F1.20c	FP-PE-NDE-530	VT / 2012V053 / NAD	RH	2-ISI-52	4/28/2012	PSI
				FP-PE-NDE-530	VT / 2012V055 / NAD	RH	2-ISI-52	4/29/2012	PSI
505132	H- 1	Single Support	F1.20a	FP-PE-NDE-530	VT / 2012V020 / NAD	SI	2-ISI-90C	3/5/2012	ISI
505418	H- 1	Restraint	F1.20b	FP-PE-NDE-530	VT / 2012V017 / NAD	SI	2-ISI-93B	3/1/2012	ISI
515400	H-1	Restraint	F1.20b	FP-PE-NDE-530	VT / 2012V021 / NAD	RH	2-ISI-50	3/5/2012	ISI
515562	H-7	Seismic Snubber	F1.20c	FP-PE-NDE-530	VT / 2012V047 / NAD	CS	2-ISI-98A	3/29/2012	PSI
<b>Class 2</b>	<b>Category FWTOSG (Feedwater to Steam Generators Owner Elected)</b>								
505734	N- 1 Ring Tee	FW Ring/Tee supports	NRCIN9320	FP-PE-NDE-530	VT / 2012V043 / NAD	SG	2-ISI-37A	3/26/2012	OWN
<b>Class 2</b>	<b>Category R-A (Risk-Informed Piping Examinations)</b>								
500295-RI	W-20	Pipe to Flued Head	R1.11-5	FP-PE-NDE-401	UT / 2012U013 / NAD	AF	2-ISI-48	3/2/2012	ISI
500296-RI	W-20A	Flued Head to Pipe	R1.11-5	FP-PE-NDE-401	UT / 2012U014 / NAD	FW	2-ISI-48	3/2/2012	ISI
500634-RI	W-24	Reducer to Nozzle	R1.11-5	FP-PE-NDE-401	UT / 2012U016 / NAD	FW	2-ISI-48	3/2/2012	OWN
500635-RI	W-23	Pipe to Reducer	R1.11-5	FP-PE-NDE-401	UT / 2012U015 / NAD	FW	2-ISI-48	3/2/2012	ISI
501595-RI	W- 6/LSD	Pipe to Tee	R1.20-4	FP-PE-NDE-402	UT / 2012U032 / NAD	RH	2-ISI-54	3/21/2012	ISI

**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012  
Inservice Inspection Report  
Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy  
2. Plant: Prairie Island Nuclear Generating Plant  
3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):  
5. Commercial Service Date: 12/21/1974  
6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
501605-RI	W-15	Elbow to Pipe	R1.19-5	SWI NDE-PT-1	PT / 2012P002 / NAD	RH	2-ISI-54A	4/4/2012	ISI
				FP-PE-NDE-402	UT / 2012U040 / NAD	RH	2-ISI-54A	3/28/2012	ISI
501871-RI	W-30	Pipe to Tee	R1.11-2	FP-PE-NDE-402	UT / 2012U038 / NAD	RH	2-ISI-54	3/21/2012	ISI
502020-RI	W-16/LSUD	Pipe to Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U003 / NAD	RH	2-ISI-64	2/22/2012	ISI
502022-RI	W-17/LSUD	Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U004 / NAD	RH	2-ISI-64	2/22/2012	ISI
502137-RI	W- 5/LSUD	Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U006 / NAD	RH	2-ISI-98	2/22/2012	ISI
502139-RI	W- 8/LSUD	Pipe to Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U007 / NAD	RH	2-ISI-98	2/22/2012	ISI
502303-RI	W- 9/LSU	45 Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U034 / NAD / GEO	RH	2-ISI-54	3/21/2012	ISI
502304-RI	W- 8/LSD	Pipe to 45 Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U033 / NAD / GEO	RH	2-ISI-54	3/21/2012	ISI
502351-RI	W-14/LSD	Pipe to Elbow	R1.11-2	FP-PE-NDE-402	UT / 2012U037 / NAD	SI	2-ISI-55	3/28/2012	ISI
505047-RI	W- 4	Pipe to Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U001 / NAD	SI	2-ISI-90A	2/22/2012	ISI
505056-RI	W-12	Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U005 / NAD	SI	2-ISI-90A	2/22/2012	ISI
505057-RI	W-13	Pipe to Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U002 / NAD	SI	2-ISI-90A	2/22/2012	ISI
505366-RI	W-13	Pipe to Elbow	R1.20-4	FP-PE-NDE-402	UT / 2012U011 / NAD	SI	2-ISI-93A	2/29/2012	ISI
505367-RI	W-14	Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U010 / NAD	SI	2-ISI-93A	2/29/2012	ISI

**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012  
Inservice Inspection Report  
Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy
2. Plant: Prairie Island Nuclear Generating Plant
3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):
5. Commercial Service Date: 12/21/1974
6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
505369-RI	W-16	Elbow to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U009 / NAD	SI	2-ISI-93A	2/29/2012	ISI
505586-RI	W- 3	Reducer to Pipe	R1.20-4	FP-PE-NDE-402	UT / 2012U008 / NAD	CS	2-ISI-100	2/22/2012	ISI
<b>Class 3</b>	<b>Category D-A</b>	<b>(Welded Attachments Vessels, Piping, Pumps, &amp; Valves)</b>							
522767	SVH-5/IA	Int. Attach[RIGID]	D1.20	FP-PE-NDE-510	VT / 2012V018 / NAD	MS	ND-2-3-109	3/1/2012	ISI
522925	CCH-20/IA	Int. Attach[SEISMIC ANCHOR]	D1.20	FP-PE-NDE-510	VT / 2012V006 / NAD	CC	ND-2-3-76	2/23/2012	ISI
525163	2EGH-5005/IA	Int. Attach[GUIDE]	D1.20	FP-PE-NDE-510	VT / 2012V022 / NAD	D5	ND-2-3-315	3/6/2012	ISI
<b>Class 3</b>	<b>Category F-A</b>	<b>(Supports)</b>							
501253	H-1	Support A-Base	F1.40	FP-PE-NDE-530	VT / 2012V031 / NAD	CW	ND-2-3-74A	3/15/2012	ISI
512767	SVH- 5	RIGID	F1.30a	FP-PE-NDE-530	VT / 2012V019 / NAD	MS	ND-2-3-109	3/1/2012	ISI
512794	CCH-56	Spring	F1.30c	FP-PE-NDE-530	VT / 2012V032 / NAD	CC	ND-2-3-81	3/16/2012	ISI
512812	CCH-13	ROD	F1.30a	FP-PE-NDE-530	VT / 2012V008 / NAD	CC	ND-2-3-75	2/23/2012	ISI
512920	2-CWH-50	Snubber	F1.30c	FP-PE-NDE-530	VT / 2012V005 / NAD	CW	ND-2-3-2	2/23/2012	ISI
512925	CCH-20	Seismic Anchor	F1.30b	FP-PE-NDE-530	VT / 2012V007 / NAD	CC	ND-2-3-76	2/23/2012	ISI
512958	SVH- 1	Sway Strut/Clamp	F1.30a	FP-PE-NDE-530	VT / 2012V054 / IND	MS	ND-2-3-109	4/30/2012	PSI
<b>Comments:</b>	<b>Dispositioned as acceptable AR 58774.</b>								
515051	CWH-604	Sway Strut	F1.30b	FP-PE-NDE-530	VT / 2012V050 / IND	CW	ND-2-3-74	4/1/2012	PSI
<b>Comments:</b>	<b>Lack of thread engagement evaluted as acceptable AR 1331746.</b>								

**Unit 2 Fuel Cycle 26, 05/24/2010 to 05/29/2012  
Inservice Inspection Report  
Interval 4, Period 3, Outage 1 (2R27)**

1. Owner: Xcel Energy  
2. Plant: Prairie Island Nuclear Generating Plant  
3. Plant Unit: 2

4. Owner Certificate of Authorization (If Req.):  
5. Commercial Service Date: 12/21/1974  
6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
515163	2EGH-5005	GUIDE	F1.30a	FP-PE-NDE-530	VT / 2012V023 / NAD	D5	ND-2-3-315	3/6/2012	ISI
515172	2EGH-6021	GUIDE	F1.30a	FP-PE-NDE-530	VT / 2012V001 / NAD	D6	ND-2-3-319	2/22/2012	ISI
515187	2EGH-6025	RESTRAINT	F1.30b	FP-PE-NDE-530	VT / 2012V002 / NAD	D6	ND-2-3-323	2/22/2012	ISI
515272	2EGH-6060	GUIDE	F1.30b	FP-PE-NDE-530	VT / 2012V004 / NAD	D6	ND-2-3-345	2/22/2012	ISI
515275	2EGH-6061	SADDLE HANGER	F1.30b	FP-PE-NDE-530	VT / 2012V003 / NAD	D6	ND-2-3-346	2/22/2012	ISI

**Prairie Island Nuclear Plant  
Completion Code Compliance Summary - 4th Interval  
ISI - Code Edition - 1998, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required for Interval	Total# Required for Interval	Total Sched	Total# Comp to Date.	% Comp to Date.	Notes
ACC NOZ	Cladding		2	100%	2	2	2	100%	Accumulator nozzles owner elected examination. Based on site OE of both cladding and nozzle cracking (AR 0851206 and AR 10330354) the site performs visual and PT inspection of the cladding and nozzles every third outage under GMP ACC-001.
ACC NOZ	NRCIN9105		8	100%	8	8	8	100%	Accumulator nozzles owner elected examination.
<b>Total:</b>			<b>10</b>		<b>10</b>	<b>10</b>	<b>10</b>	<b>100%</b>	
B-A	B1.11		3	100%	3	3	0	0%	RV shell circ welds. Deferral to end of interval allowed per IWB-2500-1
B-A	B1.21		1	100%	1	1	0	0%	RV bottom head weld. Deferral to end of interval allowed per IWB-2500-1
B-A	B1.30	N-623	1	100%	1	1	0	0%	RV shell to flange weld. Deferral to end of interval allowed per N-623
<b>Total:</b>			<b>5</b>		<b>5</b>	<b>5</b>	<b>0</b>	<b>0%</b>	
B-B	B2.11		2	100%	2	0	2	100%	Pressurizer circ welds
B-B	B2.12		2	100%	2	0	2	100%	Pressurizer long welds
B-B	B2.40		2	50%	1	0	1	100%	SG tubesheet to head. One of each similar vessel.
B-B	B2.60	RR-4-2	3						Class 1 tubesheet to head HX. VT-2 each outage per RR-4-2. Not included in count.
<b>Total:</b>			<b>9</b>		<b>5</b>	<b>0</b>	<b>5</b>	<b>100%</b>	
B-D	B3.100		6	100%	6	6	0	0%	RV nozzle inside radius. Deferral to end of interval allowed per IWB-2500-1
B-D	B3.120		5	100%	5	0	5	100%	Pressurizer nozzle full pen welds.
B-D	B3.140		4	100%	4	2	2	50%	SG tubesheet to head. One of each similar vessel.
B-D	B3.160	RR-4-2	6						Class 1 HX full pen nozzles. VT-2 each outage per RR-4-2. Not included in count.
B-D	B3.90		6	100%	6	6	0	0%	Vessel full pen nozzle welds. Deferral to end of interval allowed per code case.
<b>Total:</b>			<b>27</b>		<b>21</b>	<b>14</b>	<b>7</b>	<b>33%</b>	
B-E	B4.30	N-729-1	1		0	0	1		Reactor Vessel Closure Head Bare Metal Examination. Augmented Examination required every 3rd outage. Not included in count.
<b>Total:</b>			<b>1</b>		<b>0</b>	<b>0</b>	<b>1</b>		
B-G-1	B6.10		3	100%	3	1	2	67%	RV nuts. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.
B-G-1	B6.180		2		0	0	0		Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 24 RCP bolts. Only required when required by B-L-2.
B-G-1	B6.190		2		0	0	0		Flange surface only required when disassembled

B-G-1	B6.30	3	100%	3	1	2	67%	RV studs. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16. RV ligaments. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 48. RV washers. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.
B-G-1	B6.40	1	100%	1	1	0	0%	
B-G-1	B6.50	3	100%	3	1	2	67%	
<b>Total:</b>		<b>14</b>		<b>10</b>	<b>4</b>	<b>6</b>	<b>60%</b>	
B-G-2	B7.20	1	100%	1	0	1	100%	Pressurizer studs. SG studs. Flange bolting only if disassembled or bolting removed. Pump bolting only required when required by B-L-2 Valve bolting only required when required by B-M-2 Total Percentage completed for B7.20 and B7.30. Other items NA.
B-G-2	B7.30	4	50%	2	0	2	100%	
B-G-2	B7.50	9				3		
B-G-2	B7.60	4				1		
B-G-2	B7.70	18				7		
<b>Total:</b>		<b>36</b>		<b>3</b>	<b>0</b>	<b>14</b>	<b>100%</b>	
B-K	B10.10	6		2	1	1	50%	Vessel attachments only one attachment of one of multiple similar vessels. Pipe attachments.
B-K	B10.20	41	10%	5	0	5	100%	
<b>Total:</b>		<b>47</b>		<b>7</b>	<b>1</b>	<b>6</b>	<b>86%</b>	
B-L-1	B12.10	2	50%	1	1	0	0%	Pump casing welds limited to one pump in each group of similar pumps.
<b>Total:</b>		<b>2</b>		<b>1</b>	<b>1</b>	<b>0</b>	<b>0%</b>	
B-L-2	B12.20	2	50%	1	0	0		Pump casing limited to one pump in each group of similar pumps. Only required when disassembled.
<b>Total:</b>		<b>2</b>		<b>1</b>	<b>0</b>	<b>0</b>		
B-M-2	B12.50	17	36%		1	3		Valve body interior limited to one valve in each group. Only required when disassembled.
<b>Total:</b>		<b>17</b>			<b>1</b>	<b>3</b>		
B-N-1	B13.10	1	300%	1	1	2		RV interior all accessible areas to be examined once each period.
<b>Total:</b>		<b>1</b>		<b>1</b>	<b>1</b>	<b>2</b>		
B-N-2	B13.50	1	100%	1	1	0	0%	RV interior attachments beltline. Deferral to end of interval allowed per IWB-2500-1 RV interior attachments not beltline. Deferral to end of interval allowed per IWB-2500-1
B-N-2	B13.60	1	100%	1	1	0	0%	
<b>Total:</b>		<b>2</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>0%</b>	
B-N-3	B13.70	1	100%	1	1	0	0%	Core support structure. Deferral to end of interval allowed per IWB-2500-1
<b>Total:</b>		<b>1</b>		<b>1</b>	<b>1</b>	<b>0</b>	<b>0%</b>	
B-O	B14.10	40	10%	4	0	4	100%	Control rod welds. 20 peripheral CRDMs with 2 welds each. All welds had preservice exam as part of new RV head. Deferral allowed per IWB-2412(a)3
<b>Total:</b>		<b>40</b>		<b>4</b>	<b>0</b>	<b>4</b>	<b>100%</b>	

B-P	B15.00	2	600%	12	2	10		Two pressure test procedures each outage.
Total:		2		12	2	10		
B-Q	B16.20	2	0%	0	0	0	0%	SG tubing per Technical Requirements Manual
Total:		2		0	0	0	0%	
C-A	C1.10	8	50%	4	1	3	75%	Welds at gross structural discontinuity only. The examinations are limited to one vessel among a group of vessels of similar design, size, and service.
C-A	C1.20	4	50%	2	1	1	50%	Head circ welds.
C-A	C1.30	2	50%	1	1	0	0%	Tubesheet to shell welds.
Total:		14		7	3	4	57%	
C-B	C2.21	4	50%	2	0	2	100%	Nozzle to shell
C-B	C2.22	4	50%	2	0	2	100%	Nozzle inside radius
C-B	C2.31	4	50%	2	1	1	50%	Reinforcing plates.
Total:		12		6	1	5	84%	
C-C	C3.10	4	50%	2	0	2	100%	Vessel attachment welds. One of similar vessels.
C-C	C3.20	99	10%	10	1	9	90%	Piping weld attachments
C-C	C3.30	16	10%	2	0	2	100%	Pump weld attachments
C-C	C3.40	2	10%	1	1	0	0%	Valve weld attachments
Total:		121		15	2	13	87%	
C-H	C7.00	Multiple	300%	36	6	30		Class 2 pressure tests completed once each period. Some completed after outage.
Total:		12		36	6	30		
D-A	D1.10	8	50%	4	0	4	100%	Pressure Vessel Welded Attachments. For multiple vessels of similar design and service only the welds of one vessel need be selected for examination.
D-A	D1.20	96	10%	10	1	9	90%	Piping Welded Attachments
Total:		104		14	1	13	93%	
D-B	D2.10	Multiple	300%	12	8	4		Class 3 pressure tests completed once each period. Some completed after outage.
Total:		4		12	8	4		
F-A	F1.10a	70	25%	18	3	15	83%	Class 1 pipe supports one direction
F-A	F1.10b	76	25%	19	3	16	84%	Class 1 pipe supports multidirection
F-A	F1.10c	65	25%	17	5	12	71%	Class 1 pipe supports thermal movement (springs).
F-A	F1.20a	118	15%	18	2	16	89%	Class 2 pipe supports one direction
F-A	F1.20b	81	15%	13	2	11	85%	Class 2 pipe supports multidirection
F-A	F1.20c	61	15%	10	1	9	90%	Class 2 pipe supports thermal movement (springs).
F-A	F1.30a	174	10%	18	1	17	94%	Class 3 pipe supports one direction
F-A	F1.30b	203	10%	21	3	18	86%	Class 3 pipe supports multidirection
F-A	F1.30c	49	10%	5	0	5	100%	Class 3 pipe supports thermal movement (springs).

F-A	F1.40	74		37	3	38	100%
Total:		971		176	23	157	89%
FWTOSG	NRCIN9320	12		12	3	13	100%
Total:		2		6	4	2	100%
R-A	R1.11-2	85	25%	21	0	21	100%
R-A	R1.11-5	48	10%	5	1	5	100%
R-A	R1.15-2	2	25%	1	0	1	100%
R-A	R1.16-2	4	25%	1	1	1	100%
R-A	R1.16-5	4	10%	1	0	1	100%
R-A	R1.19-5	4	10%	1	0	1	100%
R-A	R1.20-4	782	10%	78	0	80	100%
R-A	R1.20-6	696	0%	0	0	0	100%
R-A	R1.20-7	33	0%	0	0	0	100%
Total:		1658		108	2	106	100%

Other supports Class 1,2,3, MC. Visual VT-3 examination of 100% of all non-exempt Supports, other than piping supports. For multiple components, the supports of only one of the multiple components are required to be examined.

A commitment was made to inspect the feedwater nozzle to pipe transition forging welds using ultrasonic examination at a frequency of one nozzle per refueling outage or both nozzles every other refueling outage.

RI-ISI Thermal fatigue high risk  
RI-ISI Thermal fatigue medium risk  
PWSSC high risk (pressurizer nozzle)  
SCC high risk  
SCC medium risk  
ECSCC medium risk  
Not subject to damage medium risk  
Not subject to damage low risk  
Not subject to damage low risk



Section 4. IWE Examinations (6 pages attached)

The following table summarizes the IWE inspections performed in cycle 26. Inspections are listed by class, category and site summary number. The second IWE interval, September 10, 2008 through September 9, 2018, is based on the examination requirements of the 2001 Edition with 2003 Addenda of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI with limitations and modifications as required by Title 10 of the Code of Federal Regulation, Part 50.55a. As such, there is only one category (E-A) and two item numbers (E1.11 and E1.30) in scope for the second IWE period (1/10/12 – 5/11/15). There are currently no surfaces requiring augmented examination under category E-C. There were no relevant indications in the second period examination. The number and percentage of examinations or tests completed are included in this section as required by IWA-6220(f).

This section includes an evaluation of inaccessible areas as required by 10CFR50.55a(b)(2)(ix)(A) to address indication of refueling cavity leakage in contact with the steel containment vessel (AR1332452).

**Prairie Island Nuclear Plant**  
**Unit 2 Fuel Cycle 26, 05/26/2010 to 05/29/2012**  
**Inservice Inspection Report**  
**IWE Interval 2, Period 2, Outage 1 (2R27)**

- |   |   |
|---|---|
| <p>1. Owner: Xcel Energy</p> <p>2. Plant: Prairie Island Nuclear Generating Plant</p> <p>3. Plant Unit: 2</p> | <p>4. Owner Certificate of Authorization (If Req.):</p> <p>5. Commercial Service Date: 12/21/1974</p> <p>6. National Board Number for Unit: N/A</p> |
|---|---|

**Examinations Performed Fuel Cycle 26**

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
Class IWE	Category E-A								
600660	Containment	Primary Containment	E1.11	FP-PE-NDE-540	VT / 2012V074 / NAD	PC		2/23/2012	ISI
600691	Primary Containment Bolting	Bolted Connections	E1.11	FP-PE-NDE-540	VT / 2012V075 / NAD	PC		2/23/2012	ISI
600441	Primary Containment Moisture Barrier	Moisture Barrier	E1.30	FP-PE-NDE-540	VT / 2012V073 / NAD	PC		4/23/2012	PSI

**IWE Completion Code Compliance Summary - Second Interval**  
**ISI Code Edition - 2001 Edition, 2003 Addenda**

Cat.	Item No.	Summary No.	Comp Desc.	Population	Percent Required	Total Required for Interval	Total Sched	Total Comp. To Date	Cumm %	Notes
E-A	E1.11	600660	Primary Containment	1		3	1	2		Surface areas 100% each period.
E-A	E1.11	600691	Primary Containment Bolted Connections	1		3	1	2		
<b>Total:</b>						<b>6</b>	<b>2</b>	<b>4</b>	<b>67%</b>	
E-A	E1.30	600441	Moisture Barrier	1		3	2	1		Moisture Barriers 100% each period.
<b>Total:</b>						<b>3</b>	<b>2</b>	<b>1</b>	<b>33%</b>	
E-C	E4.10			0						Areas requiring Augmented Examination.
<b>Total:</b>						<b>0</b>				

## Inaccessible Areas Evaluation 50.55a(b)(2)(ix)(A)

The Code of Federal Regulations, Title 10, Part 50.55a(b)(2)(ix)(A) states: "For Class MC applications, the licensee shall evaluate the acceptability of inaccessible areas when conditions exist in accessible areas that could indicate the presence of or result in degradation to such inaccessible areas. For each inaccessible area identified, the licensee shall provide the following in the ISI Summary Report as required by IWA-6000: (1) A description of the type and estimated extent of degradation, and the conditions that led to the degradation; (2) An evaluation of each area, and the result of the evaluation, and; (3) A description of necessary corrective actions."

Refuel cavity leakage in 2R27 (cycle 26) resulted in water in contact with the containment vessel. Level instrumentation showed leakage into the containment RHR suction sump indicating refueling water in contact with the containment vessel. There was also water observed in contact with the containment vessel when concrete was excavated in the reactor vessel sump to facilitate VT and UT examination of the containment vessel (AR 01337188). These indications of leakage are considered a condition in an accessible area that could indicate the presence of or result in degradation of inaccessible areas. As such, this evaluation is included in the ISI summary report as required by 10CFR50.55a(b)(2)(ix)(A).

### **1. A description of the type and estimated extent of degradation, and the conditions that led to the degradation.**

The site believes there is no significant degradation of the steel containment vessel, the containment concrete, or steel concrete reinforcing bar. In December of 1998 Automated Engineering Services Corp (AES) performed an evaluation titled "Evaluation of the Effects of Borated Water Leaks on Concrete, Reinforcing Bars, and Carbon Steel Plate of the Containment Vessel". The evaluation concluded that the effect of borated water leaks on the structural materials in containment (concrete, reinforcing bars, and containment shell plate material) is in the worst case minimal and does not affect the capability of the structure to perform its intended function. In addition to the evaluation, a section of concrete was removed from the RHR sump in 1998 to allow direct examination of the steel containment vessel. This examination showed no indication of corrosion or pitting. The 1998 evaluation was reviewed by AES in 2R24 to account for leakage experienced from 1998 to the fall of 2006. This review determined that "The basis and conclusions developed in the Reference 1 report are still valid and in my opinion the integrity of the structural components (concrete, rebar and containment shell) are not compromised." In 2R25 (fall of 2008) a section of concrete was again removed from the RHR sump to allow direct visual examination of the containment vessel and UT thickness readings of a known wetted area. The vessel showed no visual indication of corrosion and all thickness readings were above the nominal plate thickness. It is believed the RHR sump location would be the most susceptible to corrosion as it has the most frequent history of wetting and is in close proximity to the concrete surface allowing greater oxygen exposure. A lack of significant corrosion in the RHR sump provides a high level of confidence there is no significant corrosion in other areas of the containment vessel. In addition, approximately an 18' x 2' area of the lowest accessible containment vessel plates were UT scanned with all readings above the nominal plate thickness. In March of 2009 Dominion Engineering performed an independent evaluation titled "Evaluation of Effect of Borated Water Leaks on Concrete, Reinforcing Bars, and Carbon Steel Plate of the Containment Vessels at Prairie Island Units 1 and

## Inaccessible Areas Evaluation 50.55a(b)(2)(ix)(A)

2". Consistent with the previous AES evaluation, this evaluation also concluded that degradation of the containment vessels would likely be minimal.

In 1R27 (spring 2011) and 2R27 (spring 2012) concrete was excavated from the unit 1 and unit 2 reactor vessel sumps to allow direct visual inspection and ultrasonic thickness measurement of the containment vessels. The unit 2 excavation showed wetness believed to be from leakage of the segmented seal between the refueling cavity floor and the reactor vessel. In both cases, the containment vessels showed no visual evidence of degradation with actual thickness readings above the nominal 1.5" design thickness.

Based on the results of the 1998, 2006 and 2009 professional engineering evaluations indicating no detrimental effects of refuel cavity leakage on the containment vessel, and recent visual and thickness examinations of the containment vessels of both units showing no degradation, there is a high level of confidence of no significant degradation of the unit 2 containment vessel.

The condition that could indicate the presence of or result in degradation is refueling cavity leakage that has resulted in borated water coming in contact with the steel containment vessel. Refueling cavity leakage into the unit 2 RHR sump was noted in 2R24 (fall of 2006), in 2R25 (fall of 2008), 2R26 (spring of 2010) and 2R27 (spring 2012). In all cases there was indication of leakage entering the RHR sump through the concrete at the containment vessel near the RH suction lines. In 2R27 leakage was also observed in the concrete excavation of the reactor vessel sump (AR01337188). The 2R24, 2R25, and initial leakage rate in 2R26 was approximately 1 gallon per hour (gph). Leakage in 2R26 spontaneously reduced to 0.02 gph approximately three days after pool flood. It is believed the initial leakage in 2R26 was the result of refueling cavity sandplug cover leakage that spontaneously decreased as the weight of the refueling water seated the cover. In 2R27 no significant leakage was indicated until 17 days after initial pool flood following a drain down and refill of the pool. It is believed the leakage developed at the segmented seal between the refueling pool floor and the reactor vessel as a result of changing pool level. Leakage has been experienced in previous outages on both units with documentation dating back to at least 1998. In addition to the RHR sump, past outages have shown leakage at other locations such as the regenerative heat exchanger room, nuclear instrument electrical penetrations and the floor near the reactor coolant drain tank.

### **2. An evaluation of the area, and the result of the evaluation.**

As noted above, in December of 1998 Automated Engineering Services Corp (AES) performed an evaluation titled "Evaluation of the Effects of Borated Water Leaks on Concrete, Reinforcing Bars, and Carbon Steel Plate of the Containment Vessel". Following are pertinent excerpts from that evaluation.

#### **EFFECT OF BORATED WATER LEAKS ON CONCRETE**

Many studies have been conducted on the effect of acid rain on concrete. Laboratory studies have been conducted [Ref. 1,2] utilizing accelerated test program for effects of sulfuric acid solutions with pH ranging from 2 to 5 for periods ranging from 30 days to 100 days. Concrete samples with strengths varying from 3000 psi to 9000 psi were studied. The studies revealed the surface deterioration of the concrete increased as the

## Inaccessible Areas Evaluation 50.55a(b)(2)(ix)(A)

strengths increased due to the higher cement content in stronger concrete samples. It also increased with increasing acidity of the solution.

However the corrosive effect of borated water (boric acid) is less than that of sulfuric acid at the same acidity levels. Reference 3 shows that boric acid has negligible effect on concrete whereas the same reference indicates that sulfuric acid will rapidly disintegrate concrete. Discussions with Portland Cement Association (Mr. Robert Shuldes) confirmed that the effect of borated water will have negligible effects on concrete especially since the surface is wetted only for a short time duration (about 15 days every outage). The lack of deterioration of the concrete surfaces where white deposits were seen further reinforces the observation that borated water does not have any appreciable effect on concrete.

Based on the above, we can safely conclude that the internal concrete surfaces at the construction joints and in the flow paths of the leaks would not have any deterioration. There is no safety significance of the borated water leaks on the concrete surfaces since the concrete structure would not have deteriorated and should be capable of performing its intended function.

### **EFFECT OF BORATED WATER LEAKS ON REINFORCING BARS**

Since the borated water does not affect the concrete surface, the reinforcing bars would be fully protected inside the concrete. Note that the chloride content of the leaking water is small and will have no effect on the reinforcing bars. Also there is no evidence that the concrete surfaces have cracked thereby providing a path to the seepage of acidic water directly to the reinforcing bars. The likelihood of any corrosion of the reinforcing bars in this situation is very remote.

Based on this observation, there is no reason to suspect the corrosion of the reinforcing bars. Therefore, the strength of the reinforced concrete material is not compromised by the borated water leaks.

### **EFFECT OF BORATED WATER LEAKS ON THE CONTAINMENT SHELL PLATE MATERIAL**

It is known in the nuclear industry that borated water in the form of boric acid can be corrosive to components fabricated from carbon and low alloy steels [Ref. 4]. However, most of the studies conducted involved reactor coolant at high concentration (13,000-15,000 PPM of boron with small amounts of lithium) and at high temperatures (>200°F). Reference 4 concludes that the maximum corrosion rates occurred where moisture can be replenished by a flowing solution, keeping a wet/dry interface between the solution and the dry boric acid crystals. It was also seen that when the boric acid dries out and is not significantly re-wetted, the corrosion levels are much lower.

## Inaccessible Areas Evaluation 50.55a(b)(2)(ix)(A)

As a precaution, NSP removed a portion of the grout material adhering to the steel plate around the pipe sleeve in the Sump B. The exposed steel surface *did not show any signs of corrosion or surface pitting*. This provides strong evidence that the boric acid solution was weak enough and was not constantly wetted for a long enough period of time to cause any deterioration of the steel plate surface. The same argument can be extended to other plate surfaces which are not exposed and which may be in the leak paths.

Based on the above, it is believed that the containment shell is not affected by the observed leaks and has the capability to perform its intended function.

The evaluation quoted above was reviewed by Automated Engineering Services Corp in December of 2006 in response to the leakage observed in 2R24. The review determined that the basis and conclusions developed in the earlier report were still valid and the integrity of the structural components (concrete, rebar and containment shell) was not compromised.

An independent evaluation was performed by Dominion Engineering in March of 2009. The Dominion evaluation was consistent with the previous AES evaluations indicating minimal degradation. Following are the conclusions of that evaluation:

- Because of the buffering effect of alkalinity from the concrete, the pH of the water in continuously wetted areas between the concrete and lower dome of the steel containment vessel is expected to have been in a range that inhibited corrosion of the steel, e.g., over about pH 12.5. As a result, it is expected that, as a best estimate, the maximum amount of corrosion that has actually been experienced in the wetted areas between the concrete and the inside surface of the steel containment vessel is insignificant, no more than a few mils (e.g., < 10 mils).
- While it seems unlikely, the possibility cannot be completely ruled out that the pH of the water in contact with the steel containment vessel could have been at the near neutral values that have been measured in Sump B. Analysis of this case, assuming continuous wetting of an aerated neutral pH region for the full 36 years of operation, leads to an upper limit estimate of about 0.25 inch of corrosion. It needs to be understood that this estimate is conservative since it is unlikely the pH has been at such a low level, and since it is unlikely that the aerated region at the water line has remained in the same area, such that the accumulated time duration of exposure at any one elevation is much less than 36 years.
- Thinning of the upper limit amount of 0.25 inch poses no risk of leakage under normal or accident conditions since the wall thickness is 1.5 inches.

## Inaccessible Areas Evaluation 50.55a(b)(2)(ix)(A)

- Preliminary evaluation of the effects of thinning at the upper limit amount of 0.25 inch is that it will not result in excessive stresses or strains under accident conditions. This is a result of the bending stresses and hoop stresses in the possibly thinned area at the lower knuckle region of the steel containment vessel being essentially eliminated by the support provided by the reinforced concrete on both the ID and OD of the steel containment vessel in the knuckle region. Support for this conclusion is provided by limit load analyses of steel containment vessels that have shown that, even for steel containment vessels with 65% of wall loss for significant parts of their circumference (about 13 feet), the failure pressure is still over four times the accident design pressure (Table 2 in [22]). However, it needs to be understood that any actually detected thinned areas would need to be formally reviewed and accepted per Section XI of the ASME Code, and not per the above preliminary evaluation.

### **3. A description of necessary corrective actions.**

The site has taken several actions to prevent leakage since 1998 including caulking refuel cavity leakage points prior to pool flood and the use of a spray-on strippable liner. In addition, a section of concrete was removed from the RHR sump the fall 2008 2R25 outage (WO00327768) to allow direct visual inspection of the steel containment vessel to assure no significant degradation. In recent outages the site has seal welded suspected leakage points at the internal stands and Rod Control Cluster Change Fixtures of both units. The site has also excavated the reactor sumps of both units to allow direct examination of the containment vessels and has extracted core samples of the refueling cavity floor of both units. The welded repairs have significantly reduced leakage on both units. The site continues to pursue complete leakage mitigation and continues to inspect for degradation. The site has made several commitments to mitigate leakage and monitor for degradation in conjunction with the License Renewal process as listed in AR 0116372.

In summary, the site has a high level of confidence there is no significant degradation of the containment vessel or associated structures based on evaluation and examinations. The site continues to take actions to prevent future leakage and continues to perform examinations of the containment vessel to assure no significant degradation.

Section 5. Pressure Tests 2 pages

The following pressure tests were conducted during Unit 2 cycle 26 and credited to the second period. All indications were evaluated and corrective measures performed as required by IWA-5250, IWB-3142 and IWC-3132.

Code Class Pressure Tests Unit 2 Cycle 26 Second Period					
System	Cat.	Procedure	WO#	Comp.	Indications
Main Steam	C-H	SP 2168.11 Main Steam	378903	09/13/10	No relevant indications
Containment Spray	C-H	SP 2168.14 Containment Spray System Pressure Test	389516	08/20/10	No relevant indications
Volume Control	C-H	SP 2168.16 Chemical Volume Control System	378906	12/07/11	No relevant indications
CV, RH, CS	C-H	SP 2168.25 Aux Building Trench	378911	03/25/11	No relevant indications

The following pressure tests were conducted during Unit 2 cycle 26 and are credited to the third period. All indications were evaluated and corrective measures performed as required by IWA-5250, IWB-3142 and IWC-3132.

Code Class Pressure Tests Unit 2 Cycle 26 Third Period					
System	Cat.	Procedure	WO#	Comp.	Indications
Reactor Coolant	B-P	SP 2070 Reactor Coolant System Integrity Test	409632	05/26/12	Relevant indication evaluated and found acceptable for continued service AR 1332189.
Comp Cooling	D-B	SP 2168.4 Component Cooling Class 3	420369	05/24/12	No relevant indications
Comp Cooling	C-H	SP 2168.4A Component Cooling Class 2	415362	04/23/12	No relevant indications
Aux Feed	C-H	SP 2168.6 Auxiliary Feedwater	420371	In Prog.	
Cooling Water	C-H	SP 2168.8 Cooling Water to FCU's. Class 2	417533	05/24/12	No relevant indications



Cooling Water	D-B	SP 2168.8 Cooling Water to FCU's. Class 3	417533	05/24/12	No relevant indications
Residual Heat Removal	C-H	SP 2168.10 RHR System	381759	05/20/12	Relevant indications evaluated and found acceptable for continued service AR's 1338369, 1338370, 1338384, 1324616, 1337667, 1338362.
Safety Injection	C-H	SP 2168.13 Safety Injection System	381211	In Prog.	
Post LOCA Hydrogen	C-H	SP 2168.15 Post LOCA H2 Control System	442640	05/03/12	No relevant indications
RC, SI, VC, RH, CS, SF	B-P, C-H	SP 2392 Unit 2 Insulated Bolted Connection Inspection	409638	05/01/2012	Relevant indications evaluated and found acceptable for continued service AR's 1328653, 1332189.

Section 6. Snubber Inservice Testing and Preservice Examinations 1 page

There were a total of 21 snubbers functionally tested in 2R27. All testing was completed satisfactorily. Seventeen of the twenty-one were Basic-PSA hydraulic snubbers, these snubbers had spares rebuilt and tested SAT prior to installation. The Basic-PSA snubbers that were removed were tested in the as found condition and all were also SAT. There was one ITT Grinnel snubber that was tested SAT and re-installed. One Paul Monroe snubber was functionally tested SAT and re-installed. Finally two steam generator valve blocks were replaced with re-built spares, all pre-install testing of the rebuilt and the as found testing of removed valve blocks was SAT. There was no scope expansion due to failed testing of the sample population during 2R27. Some of the testing was performed by a Basic-PSA field representative, with most tests performed by in-house maintenance after Basic-PSA field rep departure (due to outage expansion).

The visual inspections for SP 2171 and TP 2535 were performed by LMT. There was no scope expansions due to conditions found on these inspections. The snubbers that were inaccessible were not inspected. All cylinders had hydraulic fluid and any deficiencies noted during the visual inspections were inspected by the Snubber Engineer. Six Action Requests were initiated as a result of visual inspection deficiencies and those action requests were resolved prior to leaving Mode 4. Any leakage identified was attributed to fluid from overfull reservoirs and thermal movement. Those snubbers identified during the inspections with no movement or rotation, were inspected by the snubber engineer and those that were accessible, rotation and movement was evaluated and no snubbers were found to be locked up.

CAP 01326232  
CAP 01328722  
CAP 01330802  
CAP 01331002  
CAP 01331520  
CAP 01334088

Section 7. Steam Generator Eddy Current Examination Results.

Examination Category **B-Q**, Steam Generator Tubing, is reported separately per the requirements of the Plant Technical Specifications.

## Section 8. Repair/Replacement Activities for Cycle 26 (72 pages attached)

36 NIS-2 forms are attached which identify Prairie Island Unit 2 Repair/ Replacement Activities during fuel cycle 26, 4<sup>th</sup> ISI Interval. The gaps in item number sequence are due to cancelled or unfinished R/R activities.

Item #	WO, EEC, MOD #s	Description of Work Completed	SYSTEM	Code Class
2-26-002	405456-01, IEE 2010-057	Replace desurger cap screws.	VC	2
2-26-004	404147-01	Replaced the mechanical seal gland plate.	VC	2
2-26-006	405904-01, EEC-1554	Replaced bonnet assembly.	VC	2
2-26-007	417817-02	Replaced packing assemblies.	VC	2
2-26-008	415821-01	Rebuilt spare charging pump packing assemblies.	VC	2
2-26-013	434447-01	Replaced trim including the main and inner plugs.	MS	2
2-26-014	431417-01	Replaced packing assemblies.	VC	2
2-26-015	429773-01	Replaced packing assemblies.	VC	2
2-26-016	411121-01, EC-15389	Replaced mechanical seals with new cartridge type seals with integral gland plate.	CC	3
2-26-017	418558-01	Replaced valve block.	SG	1
2-26-018	410183-01	Replaced internal trim including the plug.	AF	3
2-26-020	371272-01	Replaced bonnet and bonnet fasteners.	AF	3
2-26-022	424867-01	Rebuilt spare charging pump packing assemblies.	VC	2
2-26-023	108895-01	Replaced body to bonnet fasteners.	SI	2
2-26-025	110616-05	Replaced the valve and flange bolting.	CL	3
2-26-026	395532-01	Replaced disc.	AF	2
2-26-027	418559-01	Replaced valve block.	SG	1
2-26-028	443354-01	Replaced anchor bolt.	SI	2
2-26-031	446435-01	Replaced packing assemblies.	VC	2
2-26-032	414266-01, EEC-1472	Replace valves and associated piping.	ZH	3
2-26-033	443403-01	Rebuilt spare charging pump packing assemblies.	VC	2
2-26-035	371691-01	Replaced disc.	AF	2
2-26-039	308073-01	Replaced spring can upper rod.	VC	1
2-26-041	157621-01, EC-19365, EC-19855	Replaced Valve and flange fasteners as well as the block plate fasteners.	RH	2
2-26-042	411469-01	Replaced the valve disc and one body to cover fastener set.	MS	2
2-26-043	406127-01	Replaced valve disc.	RH	2

Item #	WO, EEC, MOD #s	Description of Work Completed	SYSTEM	Code Class
2-26-044	374924-23, 374918-05	Replace fasteners sets for primary hot leg stud holes 4, 6, 7, and 14 on the 21 SG and the fastener sets for stud holes 3 (cold leg) and 9 (hot leg) on the 22 SG.	SG	1
2-26-046	418544-01	Replaced anchor nuts.	SB	2
2-26-047	454221-05, EC-19795	Install high point vent to remove non-condensable gases from the RCS. Increased the line and valve size to 1" and added new support.	RC	1
2-26-048	367903-01	Replaced several cover or flange studs and nuts.	CC	3
2-26-049	418547-01	Replaced snubber bolted connection with pinned connection.	VC	2
2-26-050	455253-01	Properly contoured the support to allow adequate clearance between pipe and support structural member.	CC	2
2-26-051	419873-04	Replaced the pump cover and mechanical seal gland plate	RH	2
2-26-052	446217-01	Replaced Valve	CL	3
2-26-053	460147-01	Replaced flange fasteners.	CL	2
2-26-054	460351-06	Cut out and rewelded canopy seal on valve to facilitate internal inspection and trim replacement.	RC	1

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-002

1. Owner Xcel Energy, NSP-M Nuclear Department Date 7/1/2010
- Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2
- Name \_\_\_\_\_
- 1717 Wakonade Dr. E, Welch Minnesota 55089 405456-01, IEE 2010-057
- Address \_\_\_\_\_
3. Work Performed by Owner Repair Organization P.O. No., Job No., etc \_\_\_\_\_
- Name \_\_\_\_\_
- Same Type Code Symbol Stamp N/A
- Address \_\_\_\_\_
- Authorization N/A
- Expiration Date N/A
4. Identification of System VC Code Class 2
5. (a) Applicable Construction Code B18.3, 1969 Edition/Addenda \_\_\_\_\_
- Addenda n/a Code Cases n/a
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
23 CHG PMP DISCH HYD DESURGER	EATON	3139-7		262-393		Corrected	<input type="checkbox"/>

7. Description of Work Replace desurger cap screws.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt
- Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-002

9. Remarks

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\_\_\_\_\_  
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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 7/1/10, \_\_\_\_\_  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 24 MAY 10 to 19 JUL 10, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions mj 21924  
Inspector's Signature National Board, Province and Endorsements

Date July 19, 2010





PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-004

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 12/1/10

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 17 AUG 10 to 01 DEC 10, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MN 01924  
National Board, Province and Endorsements

Date December 01, 2010



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-006

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/25/11  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 21 SEP 10 to 25 JAN 11, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions MN 91924  
Inspector's Signature National Board, Province and Endorsements

Date January 25, 2011



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM - 2-26-007

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/25/11  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 24 NOV 10 to 27 JAN 11 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions MN 21924  
National Board, Province and Endorsements

Date January 27, 2011



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-008

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/19/11

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 17 DEC 10 to 11 MAY 11 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions NB 12085 A, N, I  
National Board, Province and Endorsements

Date May 11, 2011





PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-013

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/7/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 21 APR 11 to 15 MAY 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12025 A-N-1 MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date May 15, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-014

1. Owner Xcel Energy, NSP-M Nuclear Department Date 2/25/2012  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 431417-01  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization N/A  
Same Expiration Date N/A  
 Address \_\_\_\_\_ Code Class 2
4. Identification of System VC Code Class 2
5. (a) Applicable Construction Code n/a, n/a Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
22 Charging Pump	Ajax			245-042	1969	Corrected	<input type="checkbox"/>

7. Description of Work Replaced packing assemblies.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-014

9. Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/25/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 08 JUL 11 to 27 FEB 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A.N.1 MN 01924  
 National Board, Province and Endorsements

Date February 27, 2012



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-015

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 10/19/11  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 11 JUL 11 to 20 OCT 11, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A.N.1  
Inspector's Signature National Board, Province and Endorsements

Date October 20, 2011



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-016

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 7/23/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 11 JUL 11 to 23 JUL 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A.N.1 MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date July 23, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-017

1. Owner Xcel Energy, NSP-M Nuclear Department Date 5/29/2012
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 418558-01  
 Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System SG Code Class 1
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
SG Snubber Block Valve	McDowell Welman	72218-000-18		21S/G03		Installed	<input type="checkbox"/>

7. Description of Work Replaced valve block.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-017

9. Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/29/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 0309 11 to 29 MAY 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A.N.1 md 21924  
Inspector's Signature National Board, Province and Endorsements

Date May 29, 2012



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-018

9. Remarks

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI:

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/27/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 04 AUG 11 to 12 JUL 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 12005 A.N.1 MN 21924  
National Board, Province and Endorsements

Date July 12, 2012



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-020

9. Remarks

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/31/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 06 SEP 11 to 01 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 2085 A.N.1 MN 21924  
National Board, Province and Endorsements

Date June 01, 2012



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-022

9. Remarks \_\_\_\_\_  
 \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 10/18/11, \_\_\_\_\_  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 12SEP11 to 19OCT11, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB P2085 A.N.1  
 Inspector's Signature National Board, Province and Endorsements

Date October 19, 2011

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-023

1. Owner Xcel Energy, NSP-M Nuclear Department Date 6/26/2012  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 108895-01  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Name \_\_\_\_\_ Type Code Symbol Stamp N/A  
 Same Name \_\_\_\_\_ Authorization N/A  
 Address \_\_\_\_\_ Expiration Date N/A
4. Identification of System SI Code Class 2
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
SUMP B TO 22 RHR PMP TRN B (INSIDE) MV	Crane			MV-32179		Corrected	<input type="checkbox"/>

7. Description of Work Replaced body to bonnet fasteners.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-023

9. Remarks

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/26/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period ~~10 SEP 11~~ 15 SEP 11 to 26 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 12085 A.N.1 MN 21924  
National Board, Province and Endorsements

Date June 26, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-025

1. Owner Xcel Energy, NSP-M Nuclear Department Date 4/16/2012  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 110616-05  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization N/A  
 Same \_\_\_\_\_ Expiration Date N/A  
 Address \_\_\_\_\_ Code Class 3
4. Identification of System CL Code Class 3
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
22 CLG WTR PMP DISCH	Pratt			2CL-39-2		Installed	<input type="checkbox"/>

7. Description of Work Replaced the valve and flange bolting.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-025

9. Remarks

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\_\_\_\_\_  
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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 4/16/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 30 SEP 11 to 02 MAY 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A-N-1 MN 21924  
National Board, Province and Endorsements

Date May 02, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-026

1. Owner Xcel Energy, NSP-M Nuclear Department Date 6/4/2012
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 395532-01  
 Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
 Address Expiration Date N/A
4. Identification of System AF Code Class 2
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
22 AFW TO 21 SG MV	Powell			MV-32246		Corrected	<input type="checkbox"/>

7. Description of Work Replaced disc.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-026

9. Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/4/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 30 MARCH 30 SEP 11 to 04 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A.N.1 MN 01924  
Inspector's Signature National Board, Province and Endorsements

Date June 04, 2012



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-027

9. Remarks VT-3 recorded in report 2012V057.

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/21/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 04 OCT 11 to 23 MAY 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085-A-N-1 MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date May 23, 2012

# PRAIRIE ISLAND NUCLEAR GENERATING PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-028

1. Owner Xcel Energy, NSP-M Nuclear Department Date 10/31/2011
- Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2
- Name \_\_\_\_\_
- 1717 Wakonade Dr. E, Welch Minnesota 55089 443354-01
- Address \_\_\_\_\_
3. Work Performed by Owner Repair Organization P.O. No., Job No., etc \_\_\_\_\_
- Name \_\_\_\_\_
- Same \_\_\_\_\_
- Address \_\_\_\_\_
- Type Code Symbol Stamp N/A
- Authorization N/A
- Expiration Date N/A
4. Identification of System SI Code Class 2
5. (a) Applicable Construction Code AWS D1.1, n/a Edition/Addenda \_\_\_\_\_
- Addenda n/a Code Cases n/a
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
<u>SI system support</u>				<u>2-RSIH-241</u>		<u>Corrected</u>	<input type="checkbox"/>

7. Description of Work Replaced anchor bolt.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt
- Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-028

9. Remarks VT-3 exam recorded on PSI report 2011V095

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 10/31/11  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 12 OCT 11 to 31 OCT 11, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A.D.1  
National Board, Province and Endorsements

Date October 31, 2011



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-031

9. Remarks

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\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/4/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 23 Nov 11 to 05 Jan 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A.N.1 MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date January 05, 2012



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-032

9. Remarks VT-2 Leakage Test recorded on report BOP-VT-12-002.

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/21/12  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 09 NOV 11 to 27 FEB 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085-A-N-1 MN 21924  
 Inspector's Signature National Board, Province and Endorsements

Date February 27, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-033

1. Owner Xcel Energy, NSP-M Nuclear Department Date 1/27/2012
- Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2
- Name \_\_\_\_\_
- 1717 Wakonade Dr. E, Welch Minnesota 55089 443403-01
- Address \_\_\_\_\_
- Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A
- Name \_\_\_\_\_
- Same \_\_\_\_\_ Authorization N/A
- Address \_\_\_\_\_ Expiration Date N/A
4. Identification of System VC Code Class 2
5. (a) Applicable Construction Code n/a, n/a Edition/Addenda \_\_\_\_\_
- Addenda n/a Code Cases n/a
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
Spare Charging Pump Packing Assemblies	Goulds			Spares		Corrected	<input type="checkbox"/>

7. Description of Work Rebuilt spare charging pump packing assemblies.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt
- Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-033

9. Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. 02111A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/27/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 14 DEC 11 to 20 JAN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A.A.1 MN 01924  
 National Board, Province and Endorsements

Date January 30, 2012





PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-035

9. Remarks

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/1/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 04 JAN 12 to 06 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A.N.1 mn 01924  
Inspector's Signature National Board, Province and Endorsements

Date June 06, 2012



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-039

9. Remarks VT-3 recorded on report # 2012V049.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 4/19/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 23 JAN 12 to 16 MAY 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A-N-1 MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date May 16, 2012



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-041

9. Remarks

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/25/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 08 FEB 12 to 25 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB + Cross A.N.I. m 21924  
National Board, Province and Endorsements

Date June 25, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-042

1. Owner Xcel Energy, NSP-M Nuclear Department Date 6/5/2012  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 411469-01  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization N/A  
Same Address \_\_\_\_\_ Expiration Date N/A
4. Identification of System MS Code Class 2
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
21 SG MS ISOL CV	Schutte & Koerting			CV-31116		Corrected	<input type="checkbox"/>

7. Description of Work Replaced the valve disc and one body to cover fastener set.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-042

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp n/a

Certificate of Authorization No. n/a Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/15/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 16 MAR 12 to 05 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A.N.1 mn 01924  
National Board, Province and Endorsements  
Date JUN 05, 2012





PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-043

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/30/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 19 MAR 12 to 18 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A.N.I. MN 0924  
National Board, Province and Endorsements

Date June 18, 2012

# PRAIRIE ISLAND NUCLEAR GENERATING PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-044

1. Owner Xcel Energy, NSP-M Nuclear Department Date 5/29/2012
- Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2
- Name \_\_\_\_\_
- 1717 Wakonade Dr. E, Welch Minnesota 55089 374924-23, 374918-05
- Address \_\_\_\_\_
- Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A
- Name \_\_\_\_\_
- Same \_\_\_\_\_
- Address \_\_\_\_\_
- Authorization N/A
- Expiration Date N/A
4. Identification of System SG Code Class 1
5. (a) Applicable Construction Code ASME III, 1965 Edition/Addenda \_\_\_\_\_
- Addenda Winter 66 Code Cases n/a
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
21 Steam Generator	Westinghouse	1181	68-39	234-011	1968	Corrected	<input checked="" type="checkbox"/>
22 Steam Generator	Wesinghouse	1182	68-40	234-012	1968	Corrected	<input checked="" type="checkbox"/>

7. Description of Work Replace fasteners sets for primary hot leg stud holes 4, 6, 7, and 14 on the 21 SG and the fastener sets for stud holes 3 (cold leg) and 9 (hot leg) on the 22 SG.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt
- Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-044

9. Remarks \_\_\_\_\_  
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 \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/29/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 22 MAR 12 to 19 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A.N.I. MN 21924  
 National Board, Province and Endorsements

Date June 19, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-046

1. Owner Xcel Energy, NSP-M Nuclear Department Date 4/19/2012  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 418544-01  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization N/A  
 Same \_\_\_\_\_ Expiration Date N/A  
 Address \_\_\_\_\_
4. Identification of System SB Code Class 2
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
SB system snubber	BE			2-RBDH-602		Corrected	<input type="checkbox"/>

7. Description of Work Replaced anchor nuts.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-046

9. Remarks VT-3 exam recorded under Report # BOP-VT-12-004

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 4/19/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 27 MAR 12 to 20 APR 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A-N-1 MN 21924  
National Board, Province and Endorsements

Date April 20, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-047

1. Owner Xcel Energy, NSP-M Nuclear Department Date 5/10/2012  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
.1717 Wakonade Dr. E, Welch Minnesota 55089 454221-05, EC-19795  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization N/A  
Same Expiration Date N/A  
 Address \_\_\_\_\_ Code Class 1
4. Identification of System RC Code Class 1
5. (a) Applicable Construction Code ASME III, Class 1, 1983 Edition/Addenda  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
RX Head Vent Orifice Bypass valve	Rockwell			2RC-8-33		Installed	<input type="checkbox"/>
RCGVS Support				2-RCGV-1		Installed	<input type="checkbox"/>

7. Description of Work Install high point vent to remove non-condensable gases from the RCS. Increased the line and valve size to 1" and added new support.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-047

9. Remarks \_\_\_\_\_  
\_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/10/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 05 APR 12 to 14 MAY 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A.N.I MN 01924  
National Board, Province and Endorsements

Date May 14, 2012





**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-048

9. Remarks

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp NIA

Certificate of Authorization No. NIA Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/26/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 09 APR 12 to 27 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 MN 21924  
 Inspector's Signature National Board, Province and Endorsements

Date June 27, 2012



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-049

9. Remarks VT-3 exam recorded on report # BOP-VT-12-007

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp NIA

Certificate of Authorization No. NIA Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 4/28/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 10 APR 12 to 01 MAY 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12085 A-N-1 MN 01924  
National Board, Province and Endorsements

Date May 01, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-050

1. Owner Xcel Energy, NSP-M Nuclear Department Date 5/24/2012  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 455253-01  
 Address \_\_\_\_\_
3. Work Performed by Owner \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_  
 Name \_\_\_\_\_ Type Code Symbol Stamp N/A  
 Same \_\_\_\_\_ Authorization N/A  
 Address \_\_\_\_\_ Expiration Date N/A
4. Identification of System CC Code Class 2
5. (a) Applicable Construction Code AWS D1.1, n/a Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
CC Line Support	Basic Engineering			2-CCRH-48		Corrected	<input type="checkbox"/>

7. Description of Work Properly contoured the support to allow adequate clearance between pipe and support structural member.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-050

9. Remarks

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\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/24/12, \_\_\_\_\_  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 20 APR 12 to 24 MAY 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12055 A.N.1 MD 21924  
Inspector's Signature National Board, Province and Endorsements

Date May 24, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-051

1. Owner Xcel Energy, NSP-M Nuclear Department Date 6/25/2012
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 419873-04  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System RH Code Class 2
5. (a) Applicable Construction Code n/a, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
21 RHR Pump	Byron Jackson	681N0274		245-111		Corrected	<input type="checkbox"/>

7. Description of Work Replaced the pump cover and mechanical seal gland plate
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 Other: IST testing per H10.1

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-051

9. Remarks

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\_\_\_\_\_  
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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/25/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 23 APR 12 to 29 JUN 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date June 29, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-052

1. Owner Xcel Energy, NSP-M Nuclear Department Date 6/25/2012  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 446217-01  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization N/A  
 Same \_\_\_\_\_ Expiration Date N/A  
 Address \_\_\_\_\_ Code Class 3
4. Identification of System CL
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
22 CLG PMP DSL Jacket CLG FE 27321 ISOL	Bonney Forge			2CL-89-1		Installed	<input type="checkbox"/>

7. Description of Work Replaced Valve
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-052

9. Remarks

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/25/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 04 MAY 12 to 03 JUL 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date July 07, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-053

1. Owner Xcel Energy, NSP-M Nuclear Department Date 5/30/2012  
Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 460147-01  
Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Name \_\_\_\_\_ Authorization N/A  
Same Expiration Date N/A  
Address \_\_\_\_\_ Code Class 2
4. Identification of System CL Code Class \_\_\_\_\_
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda \_\_\_\_\_  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
Piping Spool				2-1/2-2CL-37 / 4-2CL-37		Corrected	<input type="checkbox"/>

7. Description of Work Replaced flange fasteners.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 2-26-053

9. Remarks

\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/30/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 22 MAY 12 to 31 MAY 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A-N-1 MD 21924  
Inspector's Signature National Board, Province and Endorsements

Date May 31, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-054

1. Owner Xcel Energy, NSP-M Nuclear Department Date 6/14/2012
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 460351-06  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System RC Code Class 1
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
Loop A Hot Leg RTD Manifold Outlet	Rockwell			2RC-1-9		Corrected	<input type="checkbox"/>

7. Description of Work Ct out and rewelded canopy seal on valve to facilitate internal inspection and trim replacement.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 2-26-054

9. Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 6/14/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 29 MAY 12 to 15 JUN 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A.N.I. MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date June 15, 2012

**ENCLOSURE 1**

Amended Inservice Inspection Summary Report, Unit 1 Cycle 27

147 Pages Follow

The Unit 1 Cycle 27 Inservice Inspection Summary report is amended with the following revisions.

The Section 3 Code Compliance Summary is revised to make the following corrections:

Item #	Description	Resolution
B3.100	Inconsistency between total required (0) and total scheduled (6).	Corrected
B7.70	Inconsistency between total scheduled (3) and number scheduled in the third period (2).	Corrected
B10.10	Inconsistency between total scheduled (0) and number scheduled in the third period (1).	Corrected
C3.30	Inconsistency between total scheduled (1) and number scheduled in the third period (0).	Corrected
C3.40	Inconsistency between total scheduled (1) and number total required (0).	Corrected

In addition to the above corrections, several editorial changes were made to clarify the intent of the table. Affected pages of the Code Compliance Summary table are attached.

Section 7 is revised to include an NIS-2 form for a repair replacement activity not previously reported. Affected pages of the Repair/Replacement Activities Summary table and the associated NIS-2 form 1-28-006 are attached.

The original Inservice Inspection Summary Report submitted March 29, 2013 is attached for reference.

Prepared by: Tom Downing Date: 7-10-2013  
ISI Program Engineer, Xcel Energy

Approved by: Peter Brunsgaard Date: 7-16-2013  
Program Engineering Manager, Xcel Energy.  
Peter Brunsgaard

Concur: Gerald P. Daly Date: 10 JUL 13  
Authorized Nuclear Inservice Inspector  
Gerald Daly

**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
ACC NOZ	NRCIN9105		10	N/A	10	0	20	10	10	0	0	N/A	Accumulator nozzles owner elected examination Done under PM.
<b>Total:</b>			10		10	0	20	10	10	0	0	N/A	
B-A	B1.11	RR-4-1	3	100%	3	3	0	0	0	3	0	N/A	RV shell circ welds. Deferral to end of interval allowed per IWB-2500-1
B-A	B1.21	RR-4-1	1	100%	1	1	0	0	0	1	0	N/A	RV bottom head weld. Deferral to end of interval allowed per IWB-2500-1
B-A	B1.30		1	100%	1	1	0	0	0	1	0	N/A	RV shell to flange weld. Deferral to end of interval allowed per N-623
<b>Total:</b>			5		5	5	0	0	0	5	0	N/A	
B-B	B2.11		2	100%	2	0	2	1	1	0	0	100%	Pressurizer circ welds
B-B	B2.12		2	100%	2	0	2	1	1	0	0	100%	Pressurizer long welds
B-B	B2.40		4	50%	2	2	0	0	0	2	0	0%	SG tubesheet to head. One of each similar vessel.
B-B	B2.60	RR-4-2	3	100%	3	3	15	6	6	3	3	N/A	Class 1 tubesheet to head HX. VT-2 each outage per RR-4-2. <b>Not included in count.</b>
<b>Total:</b>			11		6	2	4	2	2	2	0	67%	
B-D	B3.100	N-648-1	6	100%	6	6	0	0	0	6	0	N/A	RV nozzle inside radius. Deferral to end of interval allowed per IWB-2500-1. <b>Not included in count</b>



**Prairie Island Nuclear Plant Unit 1**  
**Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage**  
**ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
B-D	B3.120		5	100%	5	2	3	0	2	2	1	60%	Pressurizer nozzle full pen welds.
B-D	B3.140		4	100%	4	0	4	4	0	0	0	100%	SG nozzle full pen welds.
B-D	B3.160	RR-4-2	6	100%	6	6	30	12	12	6	6	N/A	Class 1 HX full pen nozzles. VT-2 each outage per RR-4-2. <b>Not included in count.</b>
B-D	B3.90		6	100%	6	6	0	0	0	6	0	N/A	Vessel full pen nozzle welds. Deferral to end of interval allowed per code case. <b>Not included in count.</b>
<b>Total:</b>			<b>27</b>		<b>9</b>	<b>2</b>	<b>7</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>78%</b>	Total Percentage completed for B3.120 and B3.140. Other items NA.
B-E	B4.30		1	100%	1	1	1	0	1	1	0	N/A	Reactor Vessel Closure Head Bare Metal Examination. Augmented Examination required every 3rd outage. <b>Not included in count.</b>
<b>Total:</b>			<b>1</b>		<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>N/A</b>	
B-G-1	B6.10		3	100%	3	1	2	1	1	1	0	N/A	RV nuts. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.

**Prairie Island Nuclear Plant Unit 1**  
**Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage**  
**ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
B-G-1	B6.180		2	N/A	0	0	0	0	0	0	0	N/A	Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 24 RCP bolts. RCP bolts only when required by B-L-2. <b>Not included in count.</b>
B-G-1	B6.190		2	N/A	0	0	0	0	0	0	0	N/A	Flange surface only required when disassembled. <b>Not included in count.</b>
B-G-1	B6.30		3	100%	3	1	2	1	1	1	0	N/A	RV studs. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.
B-G-1	B6.40		1	100%	1	1	0	0	0	1	0	N/A	RV ligaments. Deferral to end of interval allowed per IWB-2500-1.
B-G-1	B6.50		3	100%	3	1	2	1	1	1	0	N/A	RV washers. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.
<b>Total:</b>			<b>14</b>		<b>10</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>N/A</b>	<b>Deferral allowed for all items.</b>
B-G-2	B7.20		1	100%	1	0	1	0	1	0	0	100%	Pressurizer studs.
B-G-2	B7.30		4	100%	4	0	4	1	1	0	2	100%	SG studs.
B-G-2	B7.50		11	N/A	0	1	10	3	4	1	3	N/A	Flange bolting only if disassembled or bolting removed. <b>Not included in count.</b>
B-G-2	B7.60		4	N/A	0	0	1	1	0	0	0	N/A	Pump bolting only required when required by B-L-2. <b>Not included in count.</b>

**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
B-G-2	B7.70		19	N/A	0	2	8	5	3	2	0	N/A	Valve bolting only required when required by B-M-2. <b>Not included in count.</b>
<b>Total:</b>			39		5	0	5	1	2	0	2	100%	Total Percentage completed for B7.20 and B7.30. Other items NA.
B-K	B10.10		6	N/A	2	1	1	1	0	1	0	50%	Vessel attachments only one attachment of one of multiple similar vessels.
B-K	B10.20		46	10%	5	1	5	2	3	1	1	100%	Pipe attachments.
B-K	B10.30		3	10%	1	0	1	0	1	0	0	100%	Pump attachments.
<b>Total:</b>			55		8	2	7	3	4	2	1	88%	
B-L-1	B12.10		1	50%	1	1	0	0	0	1	0	N/A	Pump casing welds limited to one pump in each group of similar pumps. Deferral to end of interval or disassembly for maintenance allowed.
<b>Total:</b>			1		1	1	0	0	0	1	0	N/A	
B-L-2	B12.20		2	N/A	0	0	0	0	0	0	0	N/A	Pump casing limited to one pump in each group of similar pumps. Only required when disassembled.
<b>Total:</b>			2		0	0	0	0	0	0	0	N/A	
B-M-2	B12.50		19	N/A	0	0	3	1	1	0	1	N/A	Valve body interior limited to one valve in each of 9 groups once each interval. Only required when valve disassembled.



**Prairie Island Nuclear Plant Unit 1**  
**Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage**  
**ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
C-A	C1.10		2	50%	1	0	1	0	0	0	1 (L)	100%	Welds at gross structural discontinuity only. One vessel of similar vessels.
C-A	C1.20		4	50%	2	0	2	1	1	0	0	100%	Head circ welds. One vessel of multiple vessels.
C-A	C1.30		2	50%	1	0	1	1	0	0	0	100%	Tubesheet to shell welds. One vessel of multiple vessels.
<b>Total:</b>			<b>8</b>		<b>4</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1(L)</b>	<b>100%</b>	
C-B	C2.21		2	50%	1	0	1	0	0	0	1	100%	Nozzle to shell. One of multiple vessels.
C-B	C2.22		2	50%	1	0	1	0	1	0	0	100%	Nozzle inside radius. One of multiple vessels.
C-B	C2.31		4	50%	2	0	2	1	0	0	1	100%	Reinforcing plates. One of multiple vessels.
<b>Total:</b>			<b>8</b>		<b>4</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>100%</b>	
C-C	C3.10		12	N/A	2	0	2	1	0	0	1 (L)	N/A	Vessel attachment welds. One of similar vessels.
C-C	C3.20		115	10%	12	5	7	3	4	5	0	58%	Piping weld attachments
C-C	C3.30		16	N/A	2	0	2	0	0	0	2	N/A	Pump weld attachments
C-C	C3.40		2	N/A	1	1	0	0	0	1	0	N/A	Valve weld attachments
<b>Total:</b>			<b>145</b>		<b>12</b>	<b>5</b>	<b>7</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>58%</b>	
C-H	C7.00	N-533-1	14	100%	14	7	35	14	14	7	7	N/A	Class 2 pressure tests completed once each period. Some completed after outage.
<b>Total:</b>			<b>14</b>		<b>14</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
D-A	D1.10		8	50%	4	0	4	1	1	0	2	100%	Vessel attachment welds
D-A	D1.20		82	10%	9	3	6	2	3	3	1	67%	Pipe attachment welds
D-A	D1.30		0	10%	0	0	0	0	0	0	0		Pump attachment welds.

**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
Total:			90		13	3	10	3	4	3	3	77%	
D-B	D2.10	Multiple	7	100%	21	4	17	7	7	4	3	N/A	Class 3 pressure tests completed once each period. Some completed after outage.
Total:			7		21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
F-A	F1.10a		45	25%	12	2	10	4	4	2	2	83%	Class 1 pipe supports one direction
F-A	F1.10b		94	25%	24	7	17	8	8	7	1	71%	Class 1 pipe supports multidirectional
F-A	F1.10c		65	25%	16	2	14	5	5	2	4	82%	Class 1 pipe supports thermal movement (springs).
F-A	F1.20a		106	15%	16	4	13	5	6	4	2	81%	Class 2 pipe supports one direction
F-A	F1.20b		80	15%	12	4	9	4	4	4	1	75%	Class 2 pipe supports multidirectional
F-A	F1.20c		57	15%	9	2	7	3	3	2	1	78%	Class 2 pipe supports thermal movement (springs).
F-A	F1.30a		213	10%	22	5	17	6	7	5	4	77%	Class 3 pipe supports one direction
F-A	F1.30b		104	10%	11	3	8	3	4	3	1	72%	Class 3 pipe supports multidirectional
F-A	F1.30c		45	10%	5	0	5	2	2	0	1	100%	Class 3 pipe supports thermal movement (springs).
F-A	F1.40		78	N/A	39	2	43	19	11	2	13	N/A	Other supports Class 1,2,3, MC. <b>Not included in count.</b>
Total:			887		128	29	100	40	43	29	17	78%	
R-A	R1.11-2		84	25%	21	0	21	9	7	0	5	100%	RI-ISI Thermal fatigue high risk
R-A	R1.11-5		46	10%	5	0	6	4	1	0	1	100%	RI-ISI Thermal fatigue medium risk

**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
R-A	R1.16-2		2	25%	1	0	1	1	0	0	0	100%	PWSSC high risk (pressurizer nozzle)
R-A	R1.16-5		4	10%	1	0	0	1(L)	0	0	0	100%	SCC high risk. Completed one limited examination. Relief request 1-RR-4-6.
R-A	R1.18-6		8	0%	0	0	0	0	0	0	0	N/A	SCC medium risk. <b>Not included in count.</b>
R-A	R1.19-5		4	10%	1	0	1	0	0	0	1	100%	ECSCC medium risk
R-A	R1.20-4		774	10%	78	2	76	22	27	2	27	97%	Not subject to damage medium risk
R-A	R1.20-6		673	0%	0	0	0	0	0	0	0	N/A	Not subject to damage low risk. <b>Not included in count.</b>
R-A	R1.20-7		28	0%	0	0	0	0	0	0	0	N/A	Not subject to damage low risk. <b>Not included in count.</b>
<b>Total:</b>			<b>1623</b>		<b>107</b>	<b>2</b>	<b>105</b>	<b>37</b>	<b>35</b>	<b>3</b>	<b>34</b>	<b>98%</b>	

Item #	WO, EEC, MOD #s	Description of Work Completed	SYSTEM	Code Class
1-27-029	357044-01, 357044-09, EC-21085	Restored base material eroded due to bent bar rubbing at support. Support modified to bring it into specified design.	VC	1
1-27-030	434353-05	Replaced piston.	SN	yes
1-27-031	436913-01, EC-13768	Replaced internal trim including the plug.	AF	3
1-27-033	434079-07, EEC-1096	Replaced existing Superbolt nut like-for-like due to damage during removal.	MS	2
1-27-034	359738-01	Replaced valve internals.	MS	2
1-27-035	395735-04	Replaced secondary manway cover fastener set at hole #10.	SG	2
1-27-037	416694-01	Replaced the valve disc and body to cover fasteners.	SI	1
1-27-038	387807-01	Replaced mechanical seal.	RH	2
1-27-039	407259-16	Plugged tubes in Heat Exchanger.	RH	2
1-27-040	416695-01	Replaced the valve disc.	SI	1
1-27-041	467445-01	Replaced body to bonnet fasteners.	RH	1
1-27-042	406143-01	Replaced inlet flange fasteners.	RH	2
1-27-043	467778-01, EC-21095	Replaced piping segment and associated flange fasteners.	CL	3
1-27-044	372187-05	Replaced 2 manway fastener sets.	CC	3
1-27-045	434080-01	Replaced existing Superbolt nuts like-for-like due to damage during removal.	MS	2
1-27-046	434078-01	Replaced existing Superbolt nuts like-for-like due to damage during removal.	MS	2
1-27-047	399970-01, IEE 2011-099	Replaced disc with stronger material.	AF	3
1-27-048	414263-01, IEE-2012-123	Replace the valve plug.	VC	2
1-27-049	468512-01, EC-21134	Installed flush patch to restore pipe corroded due to MIC.	CL	3
1-27-051	398397-01	Replaced body to bonnet fastener set.	RH	2
1-27-052	396243-03	Replaced inlet flange nut.	RC	1
1-27-053	422883-01	Replaced the flange fasteners due to corrosion.	CL	3
1-27-054	459748-01	Tack welded plug to plug nut due to the valve stem replacement.	MS	2
1-27-055	467950-01	Replaced CC piping support eye rod to meet the designed configuration.	CC	3
1-27-056	469996-01	Cut out and rewelded pipe to fitting to attain proper flange to flange alignment.	RC	1
1-27-057	468269-01	Shortened pipe section to obtain the proper slope condition.	RC	1
1-27-058	470096-01, EEC-1554	Replaced bonnet assembly.	VC	2
1-28-006	433767-01	Replaced disc.	RC	1



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-28-006

1. Owner NSPM d/b/a Xcel Energy Date 5/20/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 433767-01, IEE-2010-044  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System RC Code Class 1
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
1 PRZR PORV ISOL B MV	Velan			MV-32196		Corrected	<input type="checkbox"/>

7. Description of Work Replaced valve disc set.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-28-006

9. Remarks

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 5/20/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 21 MAY 13 to 21 MAY 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.I md 21924  
Inspector's Signature National Board, Province and Endorsements

Date May 21, 2013



MAR 29 2013

L-PI-13-027  
10 CFR 50.55a

U S Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Prairie Island Nuclear Generating Plant Unit 1  
Docket 50-282  
Renewed License No. DPR-42

Inservice Inspection Summary Report, Interval 4, Period 3, Outage 1, Refueling Outage  
Dates: 10-23-2012 to 01-02-2013 Unit 1, Fuel Cycle 27: 06-12-2011 to 01-02-2013

Pursuant to 10CFR50.55a, Northern States Power Company, a Minnesota corporation, doing business as Xcel Energy (hereafter "NSPM"), submits the report for the 2012 Prairie Island Nuclear Generating Plant (PINGP) Unit 1 refueling outage. An inservice inspection (ISI) examination was conducted for the third period of the fourth interval. Enclosure 1 is a copy of the ISI examination summary report for this period.

The summary report is being submitted in accordance with the PINGP American Society of Mechanical Engineers (ASME) Code Section XI ISI Program and is intended to satisfy the inspection reporting requirements contained in IWA-6230 of the ASME Boiler and Pressure Vessel Code.

The report identifies components examined; the examination methods used; the examination number; and summarizes the results. All anomalies were either corrected or an engineering evaluation was performed to accept "as-is" conditions. A description of repair/replacement activities and the corresponding work order numbers are provided in Section 8 of the enclosure.

#### Summary of Commitments

This letter contains no new commitments and no revisions to existing commitments.

James E. Lynch  
Site Vice President, Prairie Island Nuclear Generating Plant  
Northern States Power Company - Minnesota

Enclosure

cc: Administrator, Region III, USNRC  
Project Manager, PINGP, USNRC  
Resident Inspector, PINGP, USNRC  
Chief Boiler Inspector, State of Minnesota

**ENCLOSURE 1**

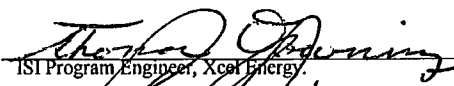
Inservice Inspection Summary Report, Interval 4, Period 3, Outage 1,  
Refueling Outage Dates: 10-23-2012 to 01-02-2013  
Unit 1, Fuel Cycle 27: 06-12-2011 to 01-02-2013

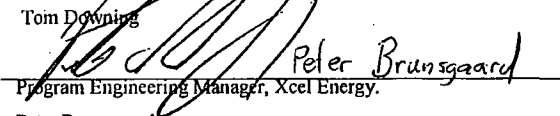
**XCEL ENERGY  
PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
1717 WAKONADE DRIVE EAST  
WELCH, MINNESOTA 55089**

**OPERATED BY:  
NORTHERN STATES POWER COMPANY – MINNESOTA  
414 NICOLLET MALL, MINNEAPOLIS, MN 55401**

**INSERVICE INSPECTION SUMMARY REPORT  
INTERVAL 4, PERIOD 3, OUTAGE 1  
REFUELING OUTAGE DATES: 10-23-2012 TO 01-02-2013  
UNIT 1, FUEL CYCLE 27: 06-12-2011 TO 01-02-2013**

**COMMERCIAL SERVICE DATE: DECEMBER 16, 1973**

Prepared by:  Date: 3/22/2013  
ISI Program Engineer, Xcel Energy.  
Tom Downing

Approved by:  Date: 3/27/2013  
Program Engineering Manager, Xcel Energy.  
Peter Brunsgaard

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Section 5. Pressure Tests	2
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Section 1. Discussion

1.0 INTRODUCTION

This summary report identifies the components examined, examination methods used, the examination number and summarizes the results of examinations performed during the 1<sup>st</sup> outage, 3<sup>rd</sup> period, 4th interval for unit 1 fuel cycle 27. The 4th inspection interval is based on the examination requirements of the ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition with 2000 Addenda, with limitations and modifications as required by Title 10 of the Code of Federal Regulation, Part 50.55a.

2.0 PERSONNEL

Visual and nondestructive examinations were performed by Xcel Energy/Northern States Power Company - Minnesota and Lambert Macgill & Thomas (LMT). The Hartford Steam Boiler Inspection and Insurance Company of Connecticut provided the Authorized Inspection services. Examination personnel certifications are maintained on file by Northern States Power Company - Minnesota.

3.0 INSPECTION SUMMARY

Examination results indicate that plant system integrity has been maintained.

Section 3 lists the Class 1 and Class 2 components examined, examination number and summary of the examination results performed during unit 1 cycle 27. Indications and disposition are as noted in the included table. There were two limited examinations of the 12 RHR heat exchanger that will require relief requests. The number and percentage of examinations or tests completed for the interval are also included in this section as required by IWA-6220(f).

Section 4 contains the IWE Class MC components examined, the examination number and summary of the examination results performed during unit 1 cycle 27. The second IWE interval (September 10, 2008 to September 9, 2018) is based on the examination requirements of ASME Section XI, Subsection IWA and IWE, 2001 Edition through the 2003 Addenda with limitations and modifications as required by Title 10 of the Code of Federal Regulation, Part 50.55a. The number and percentage of IWE examinations are also included in this section as required by IWA-6220(f). There were no indications of the containment vessel requiring evaluation, corrective actions, nor successive or augmented examinations. The moisture barrier showed several minor indications of lack of adhesion or tears ranging up to 7 inches long. These indications were accepted by repair. It should be noted minor refueling cavity leakage was reported in the regen heat exchanger room (AR 01358888). There was no indication this leakage contacted the

containment vessel and no conditions in accessible areas that could indicate the presence of or result in degradation to inaccessible areas.

Section 5 contains a summary of completed and scheduled pressure tests for the third period. All indications of leakage were evaluated and corrective measures performed as required by IWB-3142, IWC-3132 and IWA-5250.

Section 6 contains the Snubber inspection results. There were a total of 21 snubbers scheduled for testing in 1R28. All snubbers that under went functional testing had satisfactory results. Issues identified by visual inspection were addressed by minor maintenance.

Section 7 addresses the Eddy Current examination results of the 11 and 12 Steam Generators tubes.

Section 8 contains 47 Repair/Replacement activities completed under the 4th Interval during the unit 1 cycle 27.

#### 4.0 EXAMINATION REPORTS, EQUIPMENT AND MATERIALS

The inservice inspection reports in Sections 3 and 4 contain references to procedures, equipment, and materials used to complete the specific examinations. Copies of the examination reports, examination procedures, and equipment records are available from Northern States Power Company Minnesota.

Sections 3 and 4 may contain several abbreviations which are identified below:

AR = Action Request  
CAP = Corrective Action Process  
CE = Condition Evaluation  
GEO = Geometry, evaluation of indication  
OPR = Operability Recommendation  
IN = Information Notice  
IND = Indication requires further evaluation  
NAD = No Apparent Defects  
SE = Safety Evaluation  
WO = Work Order  
WR = Work Request

NSPM  
PRAIRIE ISLAND UNIT 1 CYCLE 27

INSERVICE INSPECTION  
SUMMARY REPORT

Section 2. NIS-1 (2 pages attached)

**NIS-1**  
**OWNER'S REPORT FOR INSERVICE INSPECTIONS**  
(As required by the Provisions of the ASME Code Rules)

1. Owner: NSPM d/b/a Xcel Energy, 414 Nicollet Mall, Minneapolis, MN 55401  
(Name and Address of Owner)

2. Plant: Prairie Island Nuclear Generating Plant, 1717 Wakonade Drive E, Welch, Minnesota 55089  
(Name and Address of Plant)

3. Plant Unit 1

4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 12/16/1973

6. National Board Number for Unit N/A

7. Components Inspected: Partial list of major components. See section 3.

Component or Appurtenance	Manufacturer or Installer	Manufacturer of Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel Head	Mitsubishi Heavy Inds.	B-VH-N11		5855
Reactor Vessel	Creuot-Loire	686	MINN-200-51	---
Pressurizer	Westinghouse	1111	---	68-20
11 Steam Generator	Framatome ANP	GV/PI291	---	161
12 Steam Generator	Framatome ANP	GV/PI292	---	162
11 Reactor Coolant Pump	Westinghouse	W515	---	---
12 Reactor Coolant Pump	Westinghouse	W516	---	---
11 RHR Heat Exchanger	Joseph Oats & Sons	1817-1A	---	340
12 RHR Heat Exchanger	Joseph Oats & Sons	1817-1B	---	341
11 RHR Pump	Byron Jackson	---	---	---
12 RHR Pump	Byron Jackson	---	---	---
11 Safety Injection Pump	Bingham	---	---	---
12 Safety Injection Pump	Bingham	---	---	---
11 Accumulator Tank	Delta Southern	41038-70-1	---	2554
12 Accumulator Tank	Delta Southern	41038-70-2	---	2555
Containment Vessel	CBI	---	---	---

8. Examination Dates: 06/12/2011 to 01/02/2013

9. Inspection Period Identification: CISI (2<sup>nd</sup> Period) 9/10/2011 to 9/9/2015  
ISI (3rd Period) 12/21/2011 to 12/20/2014

10. Inspection Interval Identification: CISI (2<sup>nd</sup> Interval) 9/10/2008 to 9/9/2018  
(4th Interval) 12/21/2004 to 12/20/2014

11. Applicable Edition of Section XI 1998 E. 2000 Addenda and 2001 E. 2003 Addenda (CISI)

12. Date/Revision of Inspection Plan: 02/19/13, Revision 14 and 10/26/2012 Revision 9 (CISI)

13. Abstract of Examination and Tests. Include a list of examinations and tests and statement concerning status of work required for the Inspection Plan

See Sections 3 through 7

14. Abstract of Results of Examinations and Tests

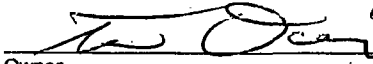
See Sections 3 through 7

15. Abstract of Corrective Measures

See Sections 3 through 8

We certify that a) that the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date \_\_\_\_\_

Date 3-21-2013 Signed   
Owner  
By Tom Downing

#### CERTIFICATE OF INSERVICE INSPECTION

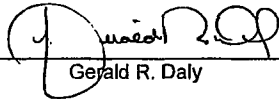
I, undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or provinces of

Minnesota and employed by Hartford Steam Boiler Inspection and Insurance Company of

Connecticut have inspected the components described in this Owner's Report during the period

06/12/2011 to 01/02/2013, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes and any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

  
Gerald R. Daly

Commissions 12085 A,N,I MN 21924  
National Board, State, Province, and Endorsements

Date: 22MAR13

Section 3. ISI Examinations (19 pages attached)

The following table summarizes the ISI inspections performed in cycle 27. Inspections are listed by class, category and site summary number. Inspections that identified indications or were limited are bold with a brief summary of the indication, corrective actions and corrective action process (AR) number as appropriate. Indications consisted primarily of minor leakage and minor support indications. One snubber showed low reservoir level which was accepted by corrective action. There were two limited examinations on the 12 RHR heat exchanger which will require relief requests. The second table lists the number and percentage of examinations completed as required by IWA-6220(f).

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**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A  
 5. Commercial Service Date: 12/16/1973  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
<b>Class 1</b>	<b>Category B-B</b>								
301077	W-1	Tubesheet to Head	B2.60	FP-PE-NDE-520	VT / 2013V001 / NAD	VC	ISI-44	12/29/2012	ISI
301078	W-2	Tubesheet to Head	B2.60	FP-PE-NDE-520	VT / 2013V002 / NAD	VC	ISI-44	12/29/2012	ISI
301079	W-3	Tubesheet to Head	B2.60	FP-PE-NDE-520	VT / 2013V003 / NAD	VC	ISI-44	12/29/2012	ISI
<b>Class 1</b>	<b>Category B-D</b>								
303030	N-1 IR	NOZZLE - HX	B3.160	FP-PE-NDE-520	VT / 2013V004 / NAD	VC	ISI-44	12/29/2012	ISI
303031	N-2IR	HX - NOZZLE	B3.160	FP-PE-NDE-520	VT / 2013V005 / NAD	VC	ISI-44	12/29/2012	ISI
303032	N-3IR	NOZZLE - HX	B3.160	FP-PE-NDE-520	VT / 2013V006 / NAD	VC	ISI-44	12/29/2012	ISI
303033	N-4IR	HX - NOZZLE	B3.160	FP-PE-NDE-520	VT / 2013V007 / NAD	VC	ISI-44	12/29/2012	ISI
303035	N-5IR	NOZZLE - HX	B3.160	FP-PE-NDE-520	VT / 2013V008 / NAD	VC	ISI-44	12/29/2012	ISI
303037	N-6IR	HX - NOZZLE	B3.160	FP-PE-NDE-520	VT / 2013V009 / NAD	VC	ISI-44	12/29/2012	ISI
303070	N-4BIR	SAFETY NOZZLE	B3.120	SWI NDE-UT-14	UT / 2012U066 / NAD	RC	ISI-42	11/10/2012	ISI
<b>Class 1</b>	<b>Category B-G-2</b>								
300123	B-1	BOLTS, STUDS, NUTS	B7.70	FP-PE-NDE-510	VT / 2012V126 / NAD	SI	ISI-2	11/16/2012	ISI
300124	B-2	BOLTS, STUDS, NUTS	B7.70	FP-PE-NDE-510	VT / 2012V128 / NAD	SI	ISI-2	11/17/2012	PSI
300411	B-2	4 ORIFICE BOLTS	B7.50	FP-PE-NDE-510	VT / 2012V107 / NAD	VC	ISI-11A	11/1/2012	ISI



**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A  
 5. Commercial Service Date: 12/16/1973  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
300612	B-1	VALVE BOLTING	B7.70	FP-PE-NDE-510	VT / 2012V132 / NAD	RH	ISI-19A	11/23/2012	PSI
300651	B-1	VALVE BOLTING	B7.70	FP-PE-NDE-510	VT / 2012V129 / NAD	RC	ISI-24	11/21/2012	PSI
				FP-PE-NDE-510	VT / 2012V140 / NAD	RC	ISI-24	11/26/2012	PSI
300660	B-1	ORIFICE BOLTS	B7.50	FP-PE-NDE-510	VT / 2012V109 / NAD	RC	ISI-21	11/1/2012	ISI
300895	B-1	FLANGE BOLTING	B7.50	FP-PE-NDE-510	VT / 2012V144 / NAD	RC	ISI-29A	12/6/2012	PSI
302902	B-1	FLANGE BOLTS	B7.50	FP-PE-NDE-510	VT / 2012V114 / NAD	VC	ISI-1F	11/3/2012	ISI
390166	B-1	Inlet Manway Bolts (20)	B7.30	FP-PE-NDE-510	VT / 2012V123 / NAD	SG	ISI-43B	11/14/2012	ISI
390167	B-2	Outlet Manway Bolts (20)	B7.30	FP-PE-NDE-510	VT / 2012V122 / NAD	SG	ISI-43B	11/14/2012	ISI
<b>Class 1</b>	<b>Category B-K</b>								
320145	H-3/IA	Int. Attach[DOUBLE SPRING]	B10.20	SWI NDE-PT-1	PT / 2012P003 / NAD	RC	ISI-3A	11/5/2012	ISI
<b>Class 1</b>	<b>Category B-M-2</b>								
302904	V-2	VALVE INT SURFACES	B12.50	FP-PE-NDE-530	VT / 2012V127 / NAD	SI	ISI-2	11/15/2012	ISI
<b>Class 1</b>	<b>Category B-P (See Section 5 for Pressure Tests)</b>								
370025	SP 1070	Reactor Coolant System Integrity Test	B15.00	FP-PE-NDE-520	VT / 2013V010 / IND	RC, SI, VC, RH	SP 1070	12/29/2012	ISI
Comments:	Minor fitting leak downstream of VC-16-18 found prior to NOP. Non-relevant indication AR 1364677.								
370026	SP 1392	Unit 1 RCS Bolting Inspection	B15.00	FP-PE-NDE-520	VT / 2012V150 / IND	RC, SI, VC, RH	Reference SP 1392	10/27/2012	ISI
Comments:	Body to Bonnet indications accepted by evaluation AR 1356844, 1357518. Fig leak accepted by corrective action AR 1357508. Body to bonnet indication accepted by evaluation AR 1356557								

**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A  
 5. Commercial Service Date: 12/16/1973  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
370032	RV BMI	Bare Metal Visual on Bottom of RV	B15.80	FP-PE-NDE-520	VT / 2012V148 / NAD	RV	SP 1421	12/13/2012	ISI
<b>Class 1</b>	<b>Category F-A</b>								
300281	H-3	SPRING CLAMP	F1.10c	FP-PE-NDE-530	VT / 2012V115 / NAD	RC	ISI-5D	11/3/2012	ISI
300325	H-3	SPRING HANGER	F1.10c	FP-PE-NDE-530	VT / 2012V108 / IND	RC	ISI-7	11/1/2012	ISI
<b>Comments:</b>	<b>Misplaced markers accepted by evaluation AR 1357956.</b>								
300430	H-3	RESTRAINT/CLAMP	F1.10b	FP-PE-NDE-530	VT / 2012V105 / NAD	VC	ISI-11B	11/1/2012	ISI
300454	H-6	ROD/CLAMP	F1.10a	FP-PE-NDE-530	VT / 2012V106 / NAD	VC	ISI-11C	11/1/2012	ISI
300593	H-9	SPRING CLAMP	F1.10c	FP-PE-NDE-530	VT / 2012V111 / NAD	SI	ISI-18	11/2/2012	ISI
300611	H-8	RUPTURE RESTRAINT	F1.10b	FP-PE-NDE-530	VT / 2012V110 / NAD	RH	ISI-19A	11/2/2012	ISI
300762	H-1	SPRING/CLAMP	F1.10c	FP-PE-NDE-530	VT / 2012V095 / NAD	RC	ISI-25	10/27/2012	ISI
300835	H-1	LATERAL RESTRAINT	F1.10b	FP-PE-NDE-530	VT / 2012V146 / NAD	VC	ISI-27B	12/8/2012	PSI
300836	H-1	RIGID HANGER	F1.10a	FP-PE-NDE-530	VT / 2012V094 / NAD	VC	ISI-27C	10/27/2012	ISI
302984	H-2	SNUBBER 2	F1.40	FP-PE-NDE-530	VT / 2012V119 / NAD	SG	ISI-43C	11/9/2012	PSI
303005	H-2	SNUBBER 2	F1.40	FP-PE-NDE-530	VT / 2012V118 / IND	SG	ISI-43D	11/9/2012	PSI
<b>Comments:</b>	<b>IND of low level accepted by corrective action AR 1358635</b>								
350200	H-13	SG # 11 Column 1	F1.40	FP-PE-NDE-530	VT / 2012V137 / NAD	SG	ISI-43C	11/26/2012	ISI

**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013****Inservice Inspection Report****Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy

2. Plant: Prairie Island Nuclear Generating Plant

3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 12/16/1973

6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
350201	H-14	SG # 11 Column 2	F1.40	FP-PE-NDE-530	VT / 2012V138 / NAD	SG	ISI-43C	11/26/2012	ISI
350202	H-15	SG # 11 Column 3	F1.40	FP-PE-NDE-530	VT / 2012V135 / NAD	SG	ISI-43C	11/26/2012	ISI
350203	H-16	SG # 11 Column 4	F1.40	FP-PE-NDE-530	VT / 2012V134 / IND	SG	ISI-43C	11/26/2012	ISI
Comments:	Indication of loose fastener was accepted by evaluation AR 1360794.								
<b>Class 1</b>	<b>Category R-A</b>								
300031-RI	W-13	45° ELBOW - PIPE	R1.11-2	FP-PE-NDE-402	UT / 2012U054 / NAD	RC	ISI-1B	11/5/2012	ISI
300032-RI	W-12	PIPE - 45° ELBOW	R1.11-2	FP-PE-NDE-402	UT / 2012U053 / NAD	RC	ISI-1B	11/5/2012	ISI
300033-RI	W-11	45° ELBOW - PIPE	R1.11-2	FP-PE-NDE-402	UT / 2012U052 / NAD	RC	ISI-1B	11/5/2012	ISI
300034-RI	W-10	PIPE - 45° ELBOW	R1.11-2	FP-PE-NDE-402	UT / 2012U051 / NAD	RC	ISI-1B	11/5/2012	ISI
300294-RI	W-4	ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U077 / NAD	RC	ISI-5D	11/12/2012	ISI
300643-RI	W-6	PIPE - ELBOW	R1.11-2	FP-PE-NDE-402	UT / 2012U050 / NAD	RC	ISI-19B	11/2/2012	ISI
300666-RI	W-7	ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U078 / NAD	RC	ISI-21	11/12/2012	ISI
300723-RI	W-20	PIPE - ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U061 / NAD	RC	ISI-23	10/26/2012	ISI
300724-RI	W-21	ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U062 / NAD	RC	ISI-23	10/26/2012	ISI
300748-RI	W-2	PIPE - TEE	R1.20-6	SWI NDE-PT-1	PT / 2012P011 / NAD	SI	ISI-24	11/17/2012	PSI
				FP-PE-NDE-402	UT / 2012U081 / NAD	SI	ISI-24	11/22/2012	PSI
Comments:	Limited preserive UT examination on SI-16-4 replacement weld. Relief request not required.								

**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, P1RFO2012**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A  
 5. Commercial Service Date: 12/16/1973  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
300750-RI	W-1	VALVE - PIPE	R1.20-6	SWI NDE-PT-1	PT / 2012P010 / NAD	SI	ISI-24	10/27/2012	PSI
300929-RI	W-5	23° ELBOW-BENT PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U064 / NAD	RC	ISI-30B	10/26/2012	ISI
300931-RI	W-4	REDUCER - 23° ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U063 / NAD	RC	ISI-30B	10/26/2012	ISI
302916-RI	W-13	PIPE - ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U059 / NAD	RC	ISI-32B	10/26/2012	ISI
302917-RI	W-14	ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U060 / NAD	RC	ISI-32B	10/26/2012	ISI
<b>Class 2</b>	<b>Category C-A</b>								
303054	W-2	SHELL - FLANGE	C1.10	FP-PE-NDE-402	UT / 2012U065 / NAD	RH	ISI-93B	11/10/2012	ISI
Comments:	Limited examination of 12 RH HX channel to flange weld. Requires relief request AR 1371291.								
<b>Class 2</b>	<b>Category C-B</b>								
301833	W-1	RHR Hx - Pipe	C2.31	SWI NDE-PT-1	PT / 2012P005 / NAD	RH	ISI-55D	11/9/2012	ISI
390129	N-1	Nozzle - Shell	C2.21	SWI NDE-MT-1	MT / 2012M006 / NAD	SG	ISI-43A	11/3/2012	ISI
				FP-PE-NDE-406 and FP-PE-NDE-UT-03	UT / 2012U067 / NAD	SG	ISI-43A	11/12/2012	ISI
<b>Class 2</b>	<b>Category C-C</b>								
302082	H-5/1A	Int. Attach[Support E]	C3.30	SWI NDE-PT-1	PT / 2012P008 / NAD	SI	ISI-83C	11/16/2012	ISI
302086	H-6/1A	Int. Attach[Support F]	C3.30	SWI NDE-PT-1	PT / 2012P007 / NAD	SI	ISI-83C	11/16/2012	ISI
323052	H-2/1A	Int. Attach[RHR HX 12 SUPPORT B]	C3.10	SWI NDE-PT-1	PT / 2012P004 / NAD	RH	ISI-93B	11/9/2012	ISI
Comments:	Limited PT examination of 12 RH HX support attachment weld. Requires relief request AR 1371334.								
325288	H-2/1A	Int. Attach[BOX SUPPORT/LUGS]	C3.20	SWI NDE-PT-1	PT / 2012P012 / NAD	SI	ISI-98B	11/17/2012	PSI

**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A  
 5. Commercial Service Date: 12/16/1973  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
325936	H-1/IA	Int. Attach[Single Spring Base Support]	C3.20	SWI NDE-PT-1	PT / 2012P015 / NAD	RH	ISI-55C	11/26/2012	PSI
<b>Class 2</b>	<b>Category C-H (See Section 5 for Pressure Tests)</b>								
370002	SP 1168.4A	Component Cooling System Pressure Test Class 2	C7.00	FP-PE-NDE-520	VT / 2013V011 / NAD	CC	NF-39245-1	12/29/2012	ISI
370010	SP 1168.10	RHR System Pressure Test	C7.00	FP-PE-NDE-520	VT / 2012V152 / NAD	RH	SP 1168.10	12/18/2012	ISI
				FP-PE-NDE-520	VT / 2013V012 / IND	RH	SP 1168.10	10/25/2012	ISI
Comments:	Boric acid residue in bottom of RHR containment suction pipe accepted by evaluation AR 1363913.								
370013	SP 1168.13	Safety Injection System Pressure Test	C7.00	FP-PE-NDE-520	VT / 2012V149 / IND	SI	XH-1-44, 45	12/9/2012	ISI
Comments:	Minor fitting leaks closed to work requests, AR 1362565, AR 1362567, WR 86205, WR 86206.								
370015	SP 1168.15	Post LOCA Hydrogen Control System Pressure Test	C7.00	FP-PE-NDE-520	VT / 2012V142 / NAD	HC	NF-39251	12/2/2012	ISI
				FP-PE-NDE-520	VT / 2012V143 / NAD	HC	NF-39251	11/7/2012	ISI
370016	SP 1168.16	Chemical and Volume Control System Pressure Test	C7.00	FP-PE-NDE-520	VT / 2012V096 / NAD	VC	Reference SP 1168.16 Rev. 15	10/27/2012	ISI
370017	SP 1168.17	Feedwater System Pressure Test	C7.00	FP-PE-NDE-520	VT / 2013V014 / NAD	FW	NF-39222	1/16/2013	ISI
370034	SP 1392	Unit 1 Class 2 Bolting Inspection	C7.00	FP-PE-NDE-520	VT / 2012V151 / IND	SI, VC, RH	Reference SP 1392	10/27/2012	ISI
Comments:	Minor body to bonnet indications accepted by evaluation AR 1356351, 1356346, 1356353.								
370088	SP 1168.8B	Cooling Water System to Unit 1 FCUs Pressure Test	C7.00	FP-PE-NDE-520	VT / 2012V083 / IND	CL	Reference SP	10/24/2012	ISI
				FP-PE-NDE-520	VT / 2013V015 / NAD	CL	Reference SP	1/16/2012	ISI
Comments:	Leakage at the 12 FCU was determined to be a gasket leakage dispositioned by corrective actions AR 1356357 and WO 395897 and reinspected.								
<b>Class 2</b>	<b>Category F-A</b>								
301132	H-2	SEISMIC RESTRAINT	F1.20a	FP-PE-NDE-530	VT / 2012V113 / NAD	MS	ISI-51A	11/2/2012	ISI

**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A  
 5. Commercial Service Date: 12/16/1973  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
301390	H-2	SPRING HANGER/CLAMP	F1.20c	FP-PE-NDE-530	VT / 2012V121 / NAD	RH	ISI-53C	11/13/2012	ISI
303052	H-2	RHR HX 12 SUPPORT B	F1.40	FP-PE-NDE-530	VT / 2012V120 / NAD	RH	ISI-93B	11/9/2012	ISI
305055	H-1	ROD/CLAMP	F1.20a	FP-PE-NDE-530	VT / 2012V117 / NAD	SI	ISI-100B	11/8/2012	ISI
305070	H-5	Double Rigid Hanger	F1.20a	FP-PE-NDE-530	VT / 2012V082 / NAD	SI	ISI-100A	10/23/2012	PSI
305288	H-2	BOX SUPPORT/LUGS	F1.20b	FP-PE-NDE-530	VT / 2012V133 / IND	SI	ISI-98B	11/23/2012	PSI
Comments:	Missing weld accepted by evaluation AR 01360381								
305631	H-2	Pipe Restraint	F1.20b	FP-PE-NDE-530	VT / 2012V112 / IND	AF	ISI-52A	11/2/2012	ISI
Comments:	Lack of thread engagement and missing washer accepted by evaluation AR 01358340.								
315936	H-1	Single Spring Base Support	F1.20c	FP-PE-NDE-530	VT / 2012V139 / NAD	RH	ISI-55C	11/26/2012	PSI
315959	H-1	#11 Pump Support A	F1.40	FP-PE-NDE-530	VT / 2012V091 / NAD	SI	ISI-83C	10/26/2012	ISI
315960	H-2	#11 Pump Support B	F1.40	FP-PE-NDE-530	VT / 2012V090 / NAD	SI	ISI-83C	10/26/2012	ISI
315961	H-3	#11 Pump Support C	F1.40	FP-PE-NDE-530	VT / 2012V089 / NAD	SI	ISI-83C	10/26/2012	ISI
315962	H-4	#11 Pump Support D	F1.40	FP-PE-NDE-530	VT / 2012V088 / NAD	SI	ISI-83C	10/26/2012	ISI
315963	H-5	#11 Pump Support E	F1.40	FP-PE-NDE-530	VT / 2012V093 / NAD	SI	ISI-83C	10/26/2012	ISI
315964	H-6	#11 Pump Support F	F1.40	FP-PE-NDE-530	VT / 2012V092 / NAD	SI	ISI-83C	10/26/2012	ISI

Class 2 Category R-A

**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A  
 5. Commercial Service Date: 12/16/1973  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
301331-RI	W-6	Pipe to Elbow	R1.19-5	SWI NDE-PT-1	PT / 2012P006 / NAD	RH	ISI-56	11/13/2012	ISI
301694-RI	W-24	Pipe - Nozzle	R1.11-5	FP-PE-NDE-401	UT / 2012U055 / NAD	FW	ISI-69	11/6/2012	ISI
301810-RI	W-16	PIPE - ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U044 / NAD	RH	ISI-83B	10/26/2012	ISI
301811-RI	W-17	ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U045 / NAD	RH	ISI-83B	10/26/2012	ISI
301823-RI	W-8LSU	TEE- PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U069 / NAD	RH	ISI-55C	11/10/2012	ISI
301824-RI	W-9LSD	PIPE - 45°ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U071 / NAD	RH	ISI-55C	11/10/2012	ISI
301825-RI	W-10LSD	45°ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U072 / NAD	RH	ISI-55C	11/10/2012	ISI
301831-RI	W-20LSD	ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U070 / NAD	RH	ISI-55C	11/10/2012	ISI
301866-RI	W-21	PIPE - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U068 / NAD	RH	ISI-55C	11/10/2012	ISI
301885-RI	W-18	PIPE - PIPE	R1.20-6	SWI NDE-PT-1 FP-PE-NDE-402	PT / 2012P014 / NAD UT / 2012U083 / NAD	SI SI	ISI-98B ISI-98B	11/22/2012 11/22/2012	PSI PSI
305111-RI	W-4	PIPE - ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U074 / NAD	SI	ISI-99A	11/12/2012	ISI
305120-RI	W-13	PIPE - ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U073 / NAD	SI	ISI-99A	11/12/2012	ISI
305122-RI	W-15	PIPE - ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U075 / NAD	SI	ISI-99A	11/12/2012	ISI
305123-RI	W-16	ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U076 / NAD	SI	ISI-99A	11/12/2012	ISI

**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy

2. Plant: Prairie Island Nuclear Generating Plant

3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 12/16/1973

6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
305144-RI	W-8	PIPE - RED TEE	R1.20-4	FP-PE-NDE-402	UT / 2012U079 / NAD	SI	ISI-101	11/12/2012	ISI
305145-RI	W-9	RED TEE - ORIFICE	R1.20-4	FP-PE-NDE-402	UT / 2012U080 / NAD	SI	ISI-101	11/12/2012	ISI
305196-RI	W-4	PIPE - 45 ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U056 / NAD	SI	ISI-97A	10/26/2012	ISI
305197-RI	W-5	45 ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U057 / NAD	SI	ISI-97A	10/26/2012	ISI
305198-RI	W-6	PIPE - 45 ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U058 / NAD	SI	ISI-97A	10/26/2012	ISI
305259-RI	W-2	REDUCER - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U049 / NAD	SI	ISI-98A	11/1/2012	ISI
305260-RI	W-3	PIPE - ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U047 / NAD	SI	ISI-98A	11/1/2012	ISI
305261-RI	W-4	ELBOW - 45 ELBOW	R1.20-4	FP-PE-NDE-402	UT / 2012U048 / NAD	SI	ISI-98A	11/1/2012	ISI
305262-RI	W-5	45 ELBOW - PIPE	R1.20-4	FP-PE-NDE-402	UT / 2012U046 / NAD	SI	ISI-98A	11/1/2012	ISI
305304-RI	W-16	TEE - PIPE	R1.20-6	SWI NDE-PT-1 FP-PE-NDE-402	PT / 2012P013 / NAD UT / 2012U082 / NAD	SI SI	ISI-98B ISI-98B	11/22/2012 11/22/2012	PSI PSI
Comments:	Limited preservice examination of weld for SI-16-4 replacement. Relief request not required.								
305305-RI	W-17	PIPE - VALVE	R1.20-6	SWI NDE-PT-1	PT / 2012P009 / NAD	SI	ISI-98B	10/27/2012	PSI
<b>Class 3</b>	<b>Category D-A</b>								
321080	H-1/IA	Int. Attach[Support A]	D1.10	FP-PE-NDE-510	VT / 2012V100 / NAD	CC	ND-1-3-216A	10/27/2012	ISI
321081	H-2/IA	Int. Attach[Support B]	D1.10	FP-PE-NDE-510	VT / 2012V101 / NAD	CC	ND-1-3-216A	10/27/2012	ISI



**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**  
**Inservice Inspection Report**  
**Interval 4, Period 3, PI1RFO2012**

1. Owner: Xcel Energy  
 2. Plant: Prairie Island Nuclear Generating Plant  
 3. Plant Unit: 1

4. Owner Certificate of Authorization (If Req.): N/A  
 5. Commercial Service Date: 12/16/1973  
 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
322698	CCH-50/A	Int. Attach[Spring]	D1.20	FP-PE-NDE-510	VT / 2012V124 / NAD	CC	ND-1-3-216	11/15/2012	ISI
<b>Class 3</b>	<b>Category D-B (See Section 5 for Pressure Tests)</b>								
370001	SP 1168.4	Component Cooling System Pressure Test	D2.10	FP-PE-NDE-520	VT / 2012V080 / NAD	CC	See SP 1168.4	8/15/2012	ISI
370005	SP 1168.7	Caustic Addition System Pressure Test	D2.10	FP-PE-NDE-520	VT / 2012V145 / NAD	CA	Figure 1	12/7/2012	ISI
				FP-PE-NDE-520	VT / 2013V016 / NAD	CA	Figure 1	1/19/2013	ISI
370078	SP 1168.8B	Cooling Water System to Unit 1 FCUs Pressure Test	D2.10	FP-PE-NDE-520	VT / 2012V084 / NAD	CL	Reference SP	10/23/2012	ISI
<b>Class 3</b>	<b>Category F-A</b>								
301080	H-1	Support A	F1.40	FP-PE-NDE-530	VT / 2012V099 / NAD	CC	ND-1-3-216A	10/27/2012	ISI
301081	H-2	Support B	F1.40	FP-PE-NDE-530	VT / 2012V098 / NAD	CC	ND-1-3-216A	10/27/2012	ISI
312446	CWH-340	Rod /Clamp	F1.30a	FP-PE-NDE-530	VT / 2012V097 / IND	CW	ND-1-3-20	10/27/2012	ISI
Comments:	Indication of contact and additional strap accepted by evaluation AR 1357458								
312506	CWH-155	Rod /Clamp	F1.30a	FP-PE-NDE-530	VT / 2012V103 / NAD	CW	ND-1-3-25	11/1/2012	ISI
312507	CWH-348	Sway Strut	F1.30b	FP-PE-NDE-530	VT / 2012V102 / NAD	CW	ND-1-3-25	11/1/2012	ISI
312536	CWH-404	Triple Rod /Clamp	F1.30a	FP-PE-NDE-530	VT / 2012V104 / NAD	CW	ND-1-3-47	11/1/2012	ISI
312693	SVH-56	Spring /Clamp	F1.30c	FP-PE-NDE-530	VT / 2012V125 / NAD	MS	ND-1-3-178	11/15/2012	ISI
312696	CCH-378	Snubber	F1.30c	FP-PE-NDE-530	VT / 2012V130 / NAD	CC	ND-1-3-216	11/22/2012	PSI

**Unit 1 Cycle 27, 06-12-2011 to 01-02-2013**

**Inservice Inspection Report**

**Interval 4, Period 3, PI1RFO2012**

- 1. Owner: Xcel Energy
- 2. Plant: Prairie Island Nuclear Generating Plant
- 3. Plant Unit: 1

- 4. Owner Certificate of Authorization (If Req.): N/A
- 5. Commercial Service Date: 12/16/1973
- 6. National Board Number for Unit: N/A

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Method/Report/Results	System	Dwg/ISO	Exam Date	Scope
312713	CCH-72	Rod /Clamp	F1.30a	FP-PE-NDE-530	VT / 2012V116 / IND	CC	ND-1-3-218	11/8/2012	ISI
				FP-PE-NDE-530	VT / 2012V153 / NAD	CC	ND-1-3-218	12/22/2012	PSI
Comments:		Indication of weled rod accepted by test AR 1358614. Rod replaced at owner option.							
312784	CCH-377	Snubber	F1.30c	FP-PE-NDE-530	VT / 2012V131 / NAD	CC	ND-1-3-224	11/22/2012	PSI
Class NC 305534	Category HVY LDS RCP Motor Lifting Rig	Reactor Coolant Pump Motor Lifting Rig	NUREG612	SWI NDE-MT-1	MT / 2012M005 / NAD	PC	ISI-HVY-LDS-4	8/22/2012	AUG

**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
ACC NOZ	NRCIN9105		10	N/A	10	0	20	10	10	0	0	N/A	Accumulator nozzles owner elected examination Done under PM.
Total:			10		0	0	0	0	0	0	0	N/A	
B-A	B1.11	RR-4-1	3	100%	3	3	0	0	0	3	0	N/A	RV shell circ welds. Deferral to end of interval allowed per IWB-2500-1
B-A	B1.21	RR-4-1	1	100%	1	1	0	0	0	1	0	N/A	RV bottom head weld. Deferral to end of interval allowed per IWB-2500-1
B-A	B1.30		1	100%	1	1	0	0	0	1	0	N/A	RV shell to flange weld. Deferral to end of interval allowed per N-623
Total:			5		5	5	0	0	0	5	0	N/A	
B-B	B2.11		2	100%	2	0	2	1	1	0	0	100%	Pressurizer circ welds
B-B	B2.12		2	100%	2	0	2	1	1	0	0	100%	Pressurizer long welds
B-B	B2.40		4	50%	2	2	0	0	0	2	0	0%	SG tubesheet to head. One of each similar vessel.
B-B	B2.60	RR-4-2	3		3	3	15	6	6	3	3	N/A	Class 1 tubesheet to head HX. VT-2 each outage per RR-4-2. <b>Not included in count.</b>
Total:			8		6	2	4	2	2	2	0	67%	
B-D	B3.100	N-648-1	6	0%	0	6	0	0	0	6	0	N/A	RV nozzle inside radius. Deferral to end of interval allowed per IWB-2500-1. <b>Not included in count</b>

**Prairie Island Nuclear Plant Unit 1**  
**Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage**  
**ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
B-D	B3.120		5	100%	5	2	3	0	2	2	1	60%	Pressurizer nozzle full pen welds.
B-D	B3.140		4	100%	4	0	4	4	0	0	0	100%	SG nozzle full pen welds.
B-D	B3.160	RR-4-2	6	100%	6	6	30	12	12	6	6	N/A	Class 1 HX full pen nozzles. VT-2 each outage per RR-4-2. <b>Not included in count.</b>
B-D	B3.90		6	100%	6	6	0	0	0	6	0	N/A	Vessel full pen nozzle welds. Deferral to end of interval allowed per code case. <b>Not included in count.</b>
Total:			9		9	2	7	4	2	2	1	78%	Total Percentage completed for B3.120 and B3.140. Other items NA.
B-E	B4.30		1	100%	1	1	0	0	0	1	0	N/A	Reactor Vessel Closure Head Bare Metal Examination. Augmented Examination required every 3rd outage. <b>Not included in count.</b>
Total:			1		1	1	0	0	0	1	0	N/A	
B-G-1	B6.10		3	100%	3	1	2	1	1	1	0	67%	RV nuts. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.

**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
B-G-1	B6.180		2	0%	0	0	0	0	0	0	0	0%	Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 24 RCP bolts. RCP bolts only when required by B-L-2. <b>Not included in count.</b>
B-G-1	B6.190		2	0%	0	0	0	0	0	0	0	0%	Flange surface only required when disassembled. <b>Not included in count.</b>
B-G-1	B6.30		3	100%	3	1	2	1	1	1	0	67%	RV studs. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.
B-G-1	B6.40		1	100%	1	1	0	0	0	1	0	0%	RV ligaments. Deferral to end of interval allowed per IWB-2500-1.
B-G-1	B6.50		3	100%	3	1	2	1	1	1	0	67%	RV washers. Deferral to end of interval allowed per IWB-2500-1. Each component is a set of 16.
Total:			10		10	4	6	3	3	4	0	N/A	Deferral allowed for all items.
B-G-2	B7.20		1	100%	1	0	1	0	1	0	0	100%	Pressurizer studs.
B-G-2	B7.30		4	100%	4	0	4	1	1	0	2	100%	SG studs.
B-G-2	B7.50		11	N/A	0	1	10	3	4	1	3	N/A	Flange bolting only if disassembled or bolting removed. <b>Not included in count.</b>
B-G-2	B7.60		4	N/A	0	0	1	1	0	0	0	N/A	Pump bolting only required when required by B-L-2. <b>Not included in count.</b>

**Prairie Island Nuclear Plant Unit 1**  
**Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage**  
**ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
B-G-2	B7.70		19	N/A	0	3	8	5	3	2	0	N/A	Valve bolting only required when required by B-M-2. Not included in count.
Total:			5		5	4	5	1	2	0	2	100%	Total Percentage completed for B7.20 and B7.30. Other items NA.
B-K	B10.10		6	N/A	2	0	1	1	0	1	0	50%	Vessel attachments only one attachment of one of multiple similar vessels.
B-K	B10.20		46	10%	5	2	5	2	2	1	1	100%	Pipe attachments.
B-K	B10.30		3	10%	1	0	1	0	1	0	0	100%	Pump attachments.
Total:			55		8	2	7	3	3	2	1	88%	
B-L-1	B12.10		1	50%	1	1	0	0	0	1	0	0%	Pump casing welds limited to one pump in each group of similar pumps. Deferral to end of interval or disassembly for maintenance allowed.
Total:			1		1	1	0	0	0	1	0	0%	
B-L-2	B12.20		2	0%	0	0	0	0	0	0	0	N/A	Pump casing limited to one pump in each group of similar pumps. Only required when disassembled.
Total:			2		0	0	0	0	0	0	0	N/A	
B-M-2	B12.50		19	0%	0	0	3	1	1	0	1	N/A	Valve body interior limited to one valve in each of 9 groups once each interval. Only required when valve disassembled.

**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
Total:			19		0	1	3	1	1	0	1	N/A	
B-N-1	B13.10		1	100%	1	0	1	1	0	1	0	N/A	RV interior all accessible areas to be examined once each period.
Total:			1		1	0	1	1	0	1	0	N/A	
B-N-2	B13.50		1	100%	1	1	0	0	0	1	0	N/A	RV interior attachments beltline. Deferral to end of interval allowed per IWB-2500-1
B-N-2	B13.60		1	100%	1	1	0	0	0	1	0	N/A	RV interior attachments not beltline. Deferral to end of interval allowed per IWB-2500-1
Total:			2		2	2	0	0	0	2	0	N/A	
B-N-3	B13.70		1	100%	1	1	0	0	0	1	0	N/A	Core support structure. Deferral to end of interval allowed per IWB-2500-1
Total:			1		1	1	0	0	0	1	0	N/A	
B-O	B14.10		66		4	4	0	0	0	4	0	N/A	10% of outside Control rod welds. Deferral allowed per IWB-2412(a)3. Replaced 1st period w/ new RV head.
Total:			66		4	4	0	0	0	4	0	N/A	
B-P	B15.00	Multiple	2	100%	2	2	10	4	4	2	2	N/A	Two pressure test procedures each outage.
B-P	B15.80		1	0%	1	1	3	1	1	0	1	N/A	Bare metal visual of RV bottom head every 2nd outage.
Total:			3		3	3	13	0	0	0	1	N/A	

**Prairie Island Nuclear Plant Unit 1**  
**Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage**  
**ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
C-A	C1.10		2	50%	1	0	1	0	0	0	1 (L)	100%	Welds at gross structural discontinuity only. One vessel of similar vessels.
C-A	C1.20		4	50%	2	0	2	1	1	0	0	100%	Head circ welds. One vessel of multiple vessels.
C-A	C1.30		2	50%	1	0	1	1	0	0	0	100%	Tubesheet to shell welds. One vessel of multiple vessels.
Total:			8		4	0	4	2	1	0	0	100%	
C-B	C2.21		2	50%	1	0	1	0	0	0	1	100%	Nozzle to shell. One of multiple vessels.
C-B	C2.22		2	50%	1	0	1	0	1	0	0	100%	Nozzle inside radius. One of multiple vessels.
C-B	C2.31		4	50%	2	0	2	1	0	0	1	100%	Reinforcing plates. One of multiple vessels.
Total:			8		4	0	4	1	1	0	2	100%	
C-C	C3.10		12	10%	2	0	2	1	0	0	1 (L)	100%	Vessel attachment welds. One of similar vessels.
C-C	C3.20		115	10%	12	5	7	3	4	5	0	71%	Piping weld attachments
C-C	C3.30		16	10%	2	1	2	0	0	0	2	100%	Pump weld attachments
C-C	C3.40		2	0%	0	1	0	0	0	1	0	0%	Valve weld attachments
Total:			145		16	7	11	4	4	6	3	69%	
C-H	C7.00	N-533-1	14	100%	14	4	35	14	14	10	4	N/A	Class 2 pressure tests completed once each period. Some completed after outage.
Total:			14		14	4	35	14	14	10	4	N/A	
D-A	D1.10		8	50%	4	0	4	1	1	0	2	100%	Vessel attachment welds
D-A	D1.20		82	10%	9	3	6	2	3	3	1	67%	Pipe attachment welds
D-A	D1.30		0	10%	0	0	0	0	0	0	0		Pump attachment welds.



**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
Total:			90		13	3	10	3	4	3	3	77%	
D-B	D2.10	Multiple	7	100%	21	0	17	7	7	4	3	81%	Class 3 pressure tests completed once each period. Some completed after outage.
Total:			7		21	0	17	7	7	4	3	81%	
F-A	F1.10a		45	25%	12	2	10	4	4	2	2	83%	Class 1 pipe supports one direction
F-A	F1.10b		94	25%	24	7	17	8	8	7	1	71%	Class 1 pipe supports multidirectional
F-A	F1.10c		65	25%	17	2	14	5	5	2	4	82%	Class 1 pipe supports thermal movement (springs).
F-A	F1.20a		106	15%	16	4	13	5	6	4	2	81%	Class 2 pipe supports one direction
F-A	F1.20b		80	15%	12	4	9	4	4	4	1	75%	Class 2 pipe supports multidirectional
F-A	F1.20c		57	15%	9	2	7	3	3	2	1	78%	Class 2 pipe supports thermal movement (springs).
F-A	F1.30a		213	10%	22	5	17	6	7	5	4	77%	Class 3 pipe supports one direction
F-A	F1.30b		104	10%	11	3	8	3	4	3	1	72%	Class 3 pipe supports multidirectional
F-A	F1.30c		45	10%	5	0	5	2	2	0	1	100%	Class 3 pipe supports thermal movement (springs).
F-A	F1.40		78	N/A	0	2	43	19	11	2	13	N/A	Other supports Class 1,2,3, MC. Not included in count.
Total:			887		128	29	100	40	43	29	17	78%	
R-A	R1.11-2		84	25%	21	0	21	9	7	0	5	100%	RI-ISI Thermal fatigue high risk
R-A	R1.11-5		46	10%	5	0	6	4	1	0	1	100%	RI-ISI Thermal fatigue medium risk

**Prairie Island Nuclear Plant Unit 1  
Code Compliance Summary - 4th Interval - 3rd Period - 1st Outage  
ISI - Code Edition - 1998 Edition, 2000 Addenda**

Cat.	Item No.	Code Case	Population	Percent Required	Total Required	Total Sched	Total Comp to Date	Comp 1st Period.	Comp 2nd Period	Period 3		% Comp to date	
										Sched 3rd Period	Comp 3rd Period		
R-A	R1.16-2		2	25%	1	0	1	1	0	0	0	100%	PWSSC high risk (pressurizer nozzle)
R-A	R1.16-5		4	10%	1	0	0	1(L)	0	0	0	100%	SCC high risk. Completed one limited examinaiton. Relief request 1-RR-4-6.
R-A	R1.18-6		8	0%	0	0	0	0	0	0	0	N/A	SCC medium risk. <b>Not included in count.</b>
R-A	R1.19-5		4	10%	1	0	1	0	0	0	1	100%	ECSCC medium risk
R-A	R1.20-4		774	10%	78	3	76	22	27	3	27	97%	Not subject to damage medium risk
R-A	R1.20-6		673	0%	0	0	0	0	0	0	0	N/A	Not subject to damage low risk. <b>Not included in count.</b>
R-A	R1.20-7		28	0%	0	0	0	0	0	0	0	N/A	Not subject to damage low risk. <b>Not included in count.</b>
<b>Total:</b>			<b>1623</b>		<b>107</b>	<b>3</b>	<b>105</b>	<b>37</b>	<b>35</b>	<b>3</b>	<b>34</b>	<b>98%</b>	

Section 4. IWE Examinations (1 page attached)

The following table summarizes the IWE inspections performed in cycle 27. Inspections are listed by class, category and site summary number. The second IWE interval (September 10, 2008 through September 9, 2018) is based on the examination requirements of the 2001 Edition with 2003 Addenda of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI with limitations and modifications as required by Title 10 of the Code of Federal Regulation, Part 50.55a. As such, there is only one category (E-A) and two item numbers (E1.11 and E1.30) in scope for the second IWE interval. There are currently no surfaces requiring augmented examination under category E-C. There were no indications of the containment vessel requiring evaluation, corrective actions, nor successive or augmented examinations. The moisture barrier showed several minor indications of lack of adhesion or tears ranging up to 7 inches long. These indications were accepted by repair and preservice inspection.

The number and percentage of examinations or tests completed are included in this section as required by IWA-6220(f).

It should be noted minor refueling cavity leakage was reported in the regen heat exchanger room (AR 01358888). There was no indication this leakage contacted the containment vessel and no conditions in accessible areas that could indicate the presence of or result in degradation to inaccessible areas that would require evaluation in accordance with 10CFR 50.55a (b)(2)(ix)(A).

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Section 5. Pressure Tests (2 pages)

The following are Unit 1, class 1 and class 2 pressure tests completed or scheduled in the third period (cycle 27 and cycle 28) as noted. All pressure test indications were evaluated and corrective measures performed as required by IWA-5250, IWB-3142 and IWC-3132.

<b>Code Class 1 &amp; 2 Pressure Tests Unit 1 Period 3 (Cycle 27 &amp; 28)</b>					
<b>System</b>	<b>Category</b>	<b>Procedure</b>	<b>Class</b>	<b>WO#</b>	<b>Comp/Sch</b>
Reactor Coolant	B-P	SP 1070 Reactor Coolant System Integrity Test	1*	425923	12/30/2012 (1R28)
Reactor Coolant	B-P	SP 1070 Reactor Coolant System Integrity Test	1	436712	Scheduled (1R29)
Reactor Vessel	B-P	SP 1421 Bare Metal Visual Exam of Bottom RV Head	1	425933	12/17/2012** (1R28)
Reactor Vessel	B-P	SP 1403 Bare Metal Visual Exam of Top RV Head	1		Scheduled*** (1R29)
RC, SI, VC, RH, CS, SF	B-P, C-H	SP 1392 Unit 1 Insulated Bolted Connection Inspection	1/2	396677	12/18/2012 (1R28)
RC, SI, VC, RH, CS, SF	B-P, C-H	SP 1392 Unit 1 Insulated Bolted Connection Inspection	1/2	436724	Scheduled (1R29)
Comp Cooling	C-H	SP 1168.4A Component Cooling Class 2	2	425965	12/30/2012 (1R28)
Aux Feed	C-H, D-B	SP 1168.6 Aux Feed System	2/3	451255	Scheduled Online
Caustic Addition	C-H	SP 1168.7 Caustic Addition System	2	443489	1/19/2013 (1R28)
Cooling Water	C-H, D-B	SP 1168.8B Cooling Water to Unit 1 FCU's Pressure Test	2/3	425899	11/2/2012 (1R28)
Residual Heat Removal	C-H	SP 1168.10 Residual Heat Removal System	2	425899	11/2/2012 (1R28)
Main Steam	C-H	SP 1168.11 Main Steam	2	425915	Scheduled (1R29)
SI Accumulator	C-H	SP 1168.12 Safety Injection Accumulators	2	425937	Scheduled (1R29)

Safety Injection	C-H	SP 1168.13 Safety Injection System Pressure Test	2	425938	12/12/2012 (1R28)
Containment Spray	C-H	SP 1168.14 Containment Spray Pressure Test	2	454706	Scheduled Online
Hydrogen Control	C-H	SP 1168.15 Post LOCA Hydrogen Control System Pressure Test	2	425959	12/3/2012 (1R28)
Chemical Volume Control System	C-H	SP 1168.16 Chemical and Volume Control System Pressure Test	2	451252	Scheduled Online
Main and Aux Feed	C-H	SP 1168.17 Feedwater System Pressure Test	2	425911	1/16/2013 Online
Sampling System	C-H	SP 1168.19 Sampling System	2	425941	12/29/2012 (1R28)
Aux Building Trench	C-H	SP 1168.25 Auxiliary Building Trench Pressure Test	2	425925	Scheduled Online

\* Inspection of class 1 components required each refueling outage. Inspection of class 2 required once each period.

\*\* Bottom RV head inspection required every second outage per code case N-722-1.

\*\*\* Top RV head inspection required lesser of 3 outage or 5 years per code case N-729-1.

NSPM  
PRAIRIE ISLAND UNIT 1 CYCLE 27

INSERVICE INSPECTION  
SUMMARY REPORT

Section 6. Snubber Inservice Testing and Preservice Examinations (3 pages attached)



Appendix A for SP 1225  
Summary description of Snubber visual inspection and  
Functional testing for IR28

There were a total of 21 snubbers scheduled for testing in IR28. All functional tests were SAT.. Seventeen of the twenty-one were Basic-PSA hydraulic snubbers, these snubbers had spares rebuilt and tested SAT prior to installation. The Basic-PSA snubbers that were removed were tested in the as found condition and all were also SAT. There was one ITT Grinnel snubber that was removed, tested and then reinstalled, which passed functional testing as well. There was one Paul Monroe snubber that was functionally tested SAT and reinstalled. Finally two steam generator valve blocks were replaced with rebuilt spares. All valve blocks were tested SAT. There was no scope expansion from failed testing on sample population during IR28. Most of the testing was performed by a Basic-PSA field representative, with a few tests performed by in-house maintenance after Basic-PSA field representative departure.

The visual inspections SP 1171 and TP 1535 were performed by LMT. 1-CH-78, had been replaced during IR27 and additional testing was required in IR28 due to the failure during functional testing in accordance with the snubber program (ref: H20, section 5.3.4), (WO#434021).. This snubber passed the functional test.

Other issues identified during the visual inspections were addressed by performing minor maintenance on the snubbers. Snubbers that did not have an acceptable level of fluid or had other minor issues were corrected per various tasks associated with WO#'s 450902. The snubbers that were inaccessible were not inspected.

Several snubbers were identified as missing its ID tag. AR 01357335, 01358136 & 01358729 were initiated to make labels for those snubbers. Some snubbers were not installed in accordance with the snubber drawing (e.g.backward). Those snubbers were orientated with the vent cap in the uppermost position, which is in accordance with the snubber program but in conflict with the drawings. Those snubbers are fully capable of performing their safety function in this configuration. During snubber replacement, all snubber paddles and devises spherical bearings were cleaned and coated with neverseez in accordance with maintenance general practice. All snubbers removed from service due to service life testing or due to interferences from other work were visually VT-3 inspected.

Doyle L. L.  
12/1/12

<b>SP</b>	<b>SNUBBER FUNCTIONAL TESTS</b>	NUMBER:
		<b>SP 1225</b>
		REV: 13
		Page 8 of 12

Table 2 Snubber Functional Test Summary

SNUBBER NO.	FUNCTIONAL TEST WO	PI# REMOVED	PI# REPLACED	TEST RESULTS
<del>I-AFWH-84</del>	<del>434341</del>	90	98	SAT
I-CCH-318	434342	80	246	SAT
I-CCH-319	434343	284	294	SAT
I-CCH-320	434344	200	224	SAT
I-CCH-349	434345	238	349	SAT
I-CCH-350	434346	418	220	SAT
I-CCH-354	434347	446	34	SAT
I-CCH-377	434348	416	131	SAT
I-CCH-378	434349	292	286	SAT
I-CWRH-81	434350	133	509	SAT
I-CWRH-82	434351	577	133	SAT
I-MSDH-26A	434352	8	147	SAT
I-MSDH-26B	434353	2	498	SAT
I-MSH-67A	434354	546	106	SAT
I-MSH-107A	434355	540	100	SAT
I-MSH-107B	434356	507	462	SAT
I-RCRH-47A	434360	565	565	SAT
I-MSH-108	434359	1108	1108	SAT



Section 7. Steam Generator Eddy Current Examination Results.

Examination Category **B-Q**, Steam Generator Tubing, is reported per the requirements of the Plant Technical Specifications.

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## Section 8. Repair/Replacement Activities for Cycle 27 (94 pages attached)

47 NIS-2 forms are attached which identify Prairie Island Unit 1 Repair/ Replacement Activities during fuel cycle 27, 4<sup>th</sup> ISI Interval. The gaps in item number sequence are due to cancelled or unfinished R/R activities.

Item #	WO, EEC, MOD #s	Description of Work Completed	SYSTEM	Code Class
1-27-001	409113-01, EC-16381	Install vent at high point in piping to comply with GL08-01.	RH	2
1-27-002	376988-01	Replaced body to bonnet fasteners.	ZH	3
1-27-003	75988-01	Replaced body to bonnet fasteners.	ZH	3
1-27-007	448276-01	Rebuilt spare charging pump packing assemblies.	VC	2
1-27-009	462624-01	Replaced section of pipe.	ZH	3
1-27-010	460988-01, 460988-08, 406988-11	Prefabricated new internal check valve assembly and replaced within the valve. Replaced 2 body to bonnet fastener studs and all body to bonnet nuts.	RC	1
1-27-012	460990-04	Replaced valve, associated piping, and support antitravel lugs. New valve also required disassembly for inspection and maintenance, which required the canopy weld to be severed and rewelded after maintenance.	SI	1
1-27-013	286550-01	Replaced plug.	ZX	3
1-27-014	404174-01, EC-17150	Replaced valve	RC	1
1-27-015	446322-01, EEC-1618	Replaced valves.	CC	3
1-27-017	434358-01	Replaced valve block.	SG	1
1-27-018	434357-01	Replaced valve block.	SG	1
1-27-020	381585-10	Replaced manway fasteners.	SI	2
1-27-021	426173-01, EC-15389	Replaced mechanical seals with new cartridge type seals with integral gland plate.	CC	3
1-27-022	439439-01, EC-16381	Install vent at high point in piping to comply with GL08-01.	RH	2
1-27-023	459784-01, EC-19490	Modified wedge to prevent pressure locking.	SI	2
1-27-024	432633-01, IEE-2011-100	Replaced valve.	CL	3
1-27-025	459783-01, EC-19490	Modified wedge to prevent pressure locking.	SI	2
1-27-026	461928-06, EC-20212	Install high point vent to remove non-condensable gases from the RCS. Increased the line and valve size to 1" and added new support.	RC	1
1-27-028	431025-01	Remove and reweld support integral attachment.	RH	2

Item #	WO, EEC, MOD #s	Description of Work Completed	SYSTEM	Code Class
1-27-029	357044-01, 357044-09, EC-21085	Restored base material eroded due to bent bar rubbing at support. Support modified to bring it into specified design.	VC	1
1-27-030	434353-05	Replaced piston.	SN	yes
1-27-031	436913-01, EC-13768	Replaced internal trim including the plug.	AF	3
1-27-033	434079-07, EEC-1096	Replaced existing Superbolt nut like-for-like due to damage during removal.	MS	2
1-27-034	359738-01	Replaced valve internals.	MS	2
1-27-035	395735-04	Replaced secondary manway cover fastener set at hole #10.	SG	2
1-27-037	416694-01	Replaced the valve disc and body to cover fasteners.	SI	1
1-27-038	387807-01	Replaced mechanical seal.	RH	2
1-27-039	407259-16	Plugged tubes in Heat Exchanger.	RH	2
1-27-040	416695-01	Replaced the valve disc.	SI	1
1-27-041	467445-01	Replaced body to bonnet fasteners.	RH	1
1-27-042	406143-01	Replaced inlet flange fasteners.	RH	2
1-27-043	467778-01, EC-21095	Replaced piping segment and associated flange fasteners.	CL	3
1-27-044	372187-05	Replaced 2 manway fastener sets.	CC	3
1-27-045	434080-01	Replaced existing Superbolt nuts like-for-like due to damage during removal.	MS	2
1-27-046	434078-01	Replaced existing Superbolt nuts like-for-like due to damage during removal.	MS	2
1-27-047	399970-01, IEE 2011-099	Replaced disc with stronger material.	AF	3
1-27-048	414263-01, IEE-2012-123	Replace the valve plug.	VC	2
1-27-049	468512-01, EC-21134	Installed flush patch to restore pipe corroded due to MIC.	CL	3
1-27-051	398397-01	Replaced body to bonnet fastener set.	RH	2
1-27-052	396243-03	Replaced inlet flange nut.	RC	1
1-27-053	422883-01	Replaced the flange fasteners due to corrosion.	CL	3
1-27-054	459748-01	Tack welded plug to plug nut due to the valve stem replacement.	MS	2
1-27-055	467950-01	Replaced CC piping support eye rod to meet the designed configuration.	CC	3
1-27-056	469996-01	Cut out and rewelded pipe to fitting to attain proper flange to flange alignment.	RC	1
1-27-057	468269-01	Shortened pipe section to obtain the proper slope condition.	RC	1
1-27-058	470096-01, EEC-1554	Replaced bonnet assembly.	VC	2

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-001

1. Owner Xcel Energy, NSP-M Nuclear Department Date 10/4/2011  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 409113-01, EC-16381  
 Address \_\_\_\_\_
3. Work Performed by Owner Repair Organization P.O. No., Job No., etc \_\_\_\_\_  
 Name \_\_\_\_\_ Type Code Symbol Stamp N/A  
Same Authorization N/A  
 Address \_\_\_\_\_ Expiration Date N/A
4. Identification of System RH Code Class 2
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
RH System Piping				2-RH-18		Installed	<input type="checkbox"/>

7. Description of Work Install vent at high point in piping to comply with GL08-01.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure NOP psi Test Temp. NOT °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-001

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
 Signed [Signature], ASME Program Engineer Date 10/4/11  
 Owner or Owner's Designee, Title \_\_\_\_\_

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 21 DEC 10 to OCT 11 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions SB 12085 A-N-1  
 Inspector's Signature National Board, Province and Endorsements  
 Date October 07, 2011



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-002

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 4/9/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 09AUG11 to 13APR12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A-N-1 MN 01924  
Inspector's Signature National Board, Province and Endorsements

Date April 13, 2012



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-003

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/22/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 18 AUG 11 to 23 FEB 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 12085 A-N-1 MD 81924  
Inspector's Signature National Board, Province and Endorsements

Date February 23, 2012



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-007

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 8/3/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 24 FEB 12 to 03 AUG 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.-1 md 21924  
Inspector's Signature National Board, Province and Endorsements

Date August 03, 2012





**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-009

9. Remarks VT-2 recorded on Report BOP-VT-12-061.  
\_\_\_\_\_  
\_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 8/27/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 02 JUL 12 to 03 OCT 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.S.1 MN. 21924  
Inspector's Signature National Board, Province and Endorsements

Date October 03, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-010

1. Owner NSPM d/b/a Xcel Energy Date 3/4/2013  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 460988-01, 460988-08, 406988-11  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization N/A  
 Same \_\_\_\_\_ Expiration Date N/A  
 Address \_\_\_\_\_ Code Class 1
4. Identification of System RC
5. (a) Applicable Construction Code B16.34, n/a \_\_\_\_\_ Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a \_\_\_\_\_
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
Cold Leg Inject Line to Loop B Cold Leg Check	Velan			SI-9-1		Corrected	<input type="checkbox"/>

7. Description of Work Prefabricated new internal check valve assembly and replaced within the valve. Replaced 2 body to bonnet fastener studs and all body to bonnet nuts.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-010

9. Remarks Pre-Service VT-1 exams recorded on Report #'s 2012V129 and 2012V140.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 3/6/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 11 JUL 12 to 06 MAR 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 MN 01924  
Inspector's Signature National Board, Province and Endorsements

Date March 06, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-012

1. Owner NSPM d/b/a Xcel Energy Date 3/14/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 460990-04  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System SI Code Class 1
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
Cold Leg INJ Line to loop B Cold Leg Chk valve	Rockwell Edwards			SI-16-4		Installed	<input type="checkbox"/>
Antitravel Lugs				1-RSIH-94		Installed	<input type="checkbox"/>

7. Description of Work Replaced valve, associated piping, and support antitravel lugs. New valve also required disassembly for inspection and maintenance, which required the canopy weld to be severed and rewelded after maintenance.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure NOP psi Test Temp. NOT °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-012

9. Remarks Pre-service surface exams documented on reports 2012P009 thru 2012P013. Pre-service UT exams recorded on reports 2012U081, 2012U082, and 2012U083. VT-2 exam recorded on report BOP-VT-13-017.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 3/14/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 19 JUL 12 to 14 MAR 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12055 ANI MN 31924  
Inspector's Signature National Board, Province and Endorsements

Date March 14, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-013

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 8/1/2012

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 28 MAY 08 to 01 AUG 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NB 12095 A.N.1 mn 21924  
National Board, Province and Endorsements

Date August 01, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-014

1. Owner NSPM d/b/a Xcel Energy Date 2/22/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 404174-01, EC-17150  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System RC Code Class 1
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
U1 PRZR SPRAY LINE DRN valve	Rockwell Edward			RC-8-10		Installed	<input type="checkbox"/>

7. Description of Work Replaced valve
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-014

9. Remarks

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/22/13

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 06 AUG-12 to 04 MAR 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1005 A.N.1 MA 2192A  
 Inspector's Signature National Board, Province and Endorsements

Date March 04, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-015

1. Owner NSPM d/b/a Xcel Energy Date 1/8/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 446322-01, EEC-1618  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System CC Code Class 3
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
11 CC SURGE TNK L24064 ROOT VLV	Vogt			LA-1-48		Installed	<input type="checkbox"/>
11 CC SURGE TNK L24064 ROOT VLV	Vogt			LA-1-47		Installed	<input type="checkbox"/>

7. Description of Work Replaced valves.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure NOP psi Test Temp. NOT °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-015

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/8/2013

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 06SEP12 to 12MAR13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12055 A.N.1 MS 21924  
Inspector's Signature National Board, Province and Endorsements

Date March 12, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-017

1. Owner NSPM d/b/a Xcel Energy Date 12/12/2012
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 434358-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System SG Code Class 1
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
SG Snubber Block Valve	McDowell Welman	72218-000-09		12S/G 02		Installed	<input type="checkbox"/>

7. Description of Work Replaced valve block.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-017

9. Remarks VT-3 exam recorded on report 2012V118

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 12/12/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 07 SEP 12 to 09 JAN 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A-N-1 MN 01924  
Inspector's Signature National Board, Province and Endorsements

Date January 09, 2013



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-018

9. Remarks VT-3 exam recorded on Report # 2012V119

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 12/4/12  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 14SEP12 to 11DEC12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 2005 A.N.I. MN 31924  
 Inspector's Signature National Board, Province and Endorsements

Date December 11, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-020

1. Owner NSPM d/b/a Xcel Energy Date 12/17/2012
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 381585-10  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System SI Code Class 2
5. (a) Applicable Construction Code API-650, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
11 RWST	Chicago Bridge and Iron			153-081		Corrected	<input type="checkbox"/>

7. Description of Work Replaced manway fasteners.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psl Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-020

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 12/17/12  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 19 SEP 12 to 27 DEC 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.I. MD 21924  
Inspector's Signature National Board, Province and Endorsements

Date December 07, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-021

1. Owner NSPM d/b/a Xcel Energy Date 2/21/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 426173-01, EC-15389  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System CC Code Class 3
5. (a) Applicable Construction Code n/a, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
12 CC pump	Goulds	222B996-2		145-122		Corrected	<input type="checkbox"/>

7. Description of Work Replaced mechanical seals with new cartridge type seals with integral gland plate.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-021

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
 Signed [Signature], ASME Program Engineer Date 2/21/13, \_\_\_\_\_  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 26 SEP 12 to 27 FEB 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 MS 21924  
 Inspector's Signature National Board, Province and Endorsements  
 Date February 27, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-022

9. Remarks VT-2 pressure test recorded on report BOP-VT-12-142.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/8/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 12 OCT 12 to 24 FEB 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A-N-1 md 21924  
Inspector's Signature National Board, Province and Endorsements

Date February 24, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-023

1. Owner NSPM d/b/a Xcel Energy Date 3/6/2013  
 Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 459784-01, EC-19490  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner \_\_\_\_\_ Type Code Symbol Stamp N/A  
 Name \_\_\_\_\_ Authorization N/A  
 Same \_\_\_\_\_ Expiration Date N/A  
 Address \_\_\_\_\_ Code Class 2
4. Identification of System SI Code Class 2
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None
6. Identification of Components \_\_\_\_\_

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
12 RHR HX TO 12 SI PUMP SUCT ISOL MV	Crane/Alloyco			MV-32207		Corrected	<input type="checkbox"/>

7. Description of Work Modified wedge to prevent pressure locking.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-023

9. Remarks

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 3/6/13  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 05 OCT 12 to 06 MAR 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A N-1 MD 21924  
 Inspector's Signature National Board, Province and Endorsements

Date March 06, 2013

## PRAIRIE ISLAND NUCLEAR GENERATING PLANT

### FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-024

1. Owner NSPM d/b/a Xcel Energy Date 10/24/2012  
Name
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
Name 432633-01, IEE-2011-100  
1717 Wakonade Dr. E, Welch Minnesota 55089 Repair Organization P.O. No., Job No., etc  
Address
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Name Authorization N/A  
Same Expiration Date N/A  
Address
4. Identification of System CL Code Class 3
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda  
Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
121 CLG WTR PMP DISCH CHK	Crane			CL-43-3		Installed	<input type="checkbox"/>

7. Description of Work Replaced valve.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-024

9. Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 10/24/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 12 OCT 12 to 03 NOV 12 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.V. m.n. 01924  
Inspector's Signature National Board, Province and Endorsements

Date November 3, 2012

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-025

1. Owner NSPM d/b/a Xcel Energy Date 3/6/2013  
 Name \_\_\_\_\_  
 2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
 Name \_\_\_\_\_  
1717 Wakonade Dr. E, Welch Minnesota 55089 459783-01, EC-19490  
 Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_  
 3. Work Performed by Owner \_\_\_\_\_ Type Code Symbol Stamp N/A  
 Same \_\_\_\_\_ Authorization N/A  
 Address \_\_\_\_\_ Expiration Date N/A  
 4. Identification of System SI Code Class 2  
 5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda \_\_\_\_\_  
 Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
11 RHR HX TO 11 SI PUMP SUCTION ISOL MV	Crane/Alloyco			MV-32206		Corrected	<input type="checkbox"/>

7. Description of Work Modified wedge to prevent pressure locking.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-025

9. Remarks

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 3/6/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 17 OCT 12 to 06 MAR 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 17085 ANI MN 01924  
Inspector's Signature National Board, Province and Endorsements

Date March 06, 2013

# PRAIRIE ISLAND NUCLEAR GENERATING PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-026

1. Owner NSPM d/b/a Xcel Energy Date 12/6/2012
- Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2
- Name \_\_\_\_\_
- 1717 Wakonade Dr. E, Welch Minnesota 55089 461928-06, EC-20212
- Address \_\_\_\_\_
- Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A
- Name \_\_\_\_\_
- Same \_\_\_\_\_
- Address \_\_\_\_\_
- Authorization N/A
- Expiration Date N/A
4. Identification of System RC Code Class 1
5. (a) Applicable Construction Code ASME III, Class 1, 1983 Edition/Addenda \_\_\_\_\_
- Addenda n/a Code Cases n/a
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
RX Head Vent Orifice Bypass valve	Rockwell			RC-8-33		Installed	<input type="checkbox"/>
RCGVS Support				1-RCGV-32		Installed	<input type="checkbox"/>

7. Description of Work Install high point vent to remove non-condensable gases from the RCS. Increased the line and valve size to 1" and added new support.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt
- Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-026

9. Remarks

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\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 12/6/12

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 18 OCT 12 to 01 FEB 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 12085 A-N-1 mn 21924  
National Board, Province and Endorsements

Date February 01, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-028

9. Remarks VT-3 PSI exam recorded on Report 2012V139. PT PSI exam recorded on report 2012P015.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/15/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 26 OCT 12 to 16 JAN 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 2085 A.N.1 mN 21924  
National Board, Province and Endorsements

Date January 16, 2013





**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-029

9. Remarks PIS VT-3 exam recorded on report # 2012V146

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
 Signed [Signature], ASME Program Engineer Date 3/11/13  
 Owner or Owner's Designee, Title \_\_\_\_\_

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 26 OCT 12 to 11 MAR 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.I MN 21924  
 Inspector's Signature National Board, Province and Endorsements  
 Date March 11, 2013



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-030

9. Remarks \_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 12/4/12, \_\_\_\_\_  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 29 OCT 12 to 11 DEC 12, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 and 21924  
Inspector's Signature National Board, Province and Endorsements

Date December 11, 2012



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-031

9. Remarks

\_\_\_\_\_  
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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/22/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 31 OCT 12 to 28 FEB 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 MD 21924  
Inspector's Signature National Board, Province and Endorsements

Date February 28, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-033

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/26/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 09 NOV 12 to 01 MAR 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 mn 21924  
Inspector's Signature National Board, Province and Endorsements

Date March 01, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-034

1. Owner NSPM d/b/a Xcel Energy Date 1/8/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 359738-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System MS Code Class 2
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
12 SG PORV	Copes Vulcan	701-95074-1-2		CV-31089	1969	corrected	<input type="checkbox"/>

7. Description of Work Replaced valve internals.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-034

9. Remarks \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
Signed [Signature], ASME Program Engineer Date 1/8/13  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 08 NOV 12 to 08 JAN 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 12085 A.N.I. MW 21921  
National Board, Province and Endorsements  
Date January 08, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-035

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/30/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 14 NOV 12 to 04 FEB 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12035 A-N-1 MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date February 04, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-037

1. Owner NSPM d/b/a Xcel Energy Date 1/14/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 416694-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System SI Code Class 1
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
 (c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
11 ACCUM LOOP A CHECK VLV	Anchor Darling			SI-6-4		Corrected	<input type="checkbox"/>

7. Description of Work Replaced the valve disc and body to cover fasteners.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-037

9. Remarks VT-1 of the fasteners recorded on PSI report 2012V128.

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/14/13

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 16 NOV 12 to 01 FEB 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 md 21924  
Inspector's Signature National Board, Province and Endorsements

Date February 01, 2013



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-038

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/3/13  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 17 Nov 12 to 05 JAN 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 120BS A.N.1 md 91924  
 Inspector's Signature National Board, Province and Endorsements

Date January 03, 2013





PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-039

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
Signed [Signature], ASME Program Engineer Date 1/14/15  
Owner or Owner's Designee, Title \_\_\_\_\_

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 16 NOV 12 to 07 FEB 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 12085 A.N.1 mn 21924  
National Board, Province and Endorsements  
Date February 07, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-040

1. Owner NSPM d/b/a Xcel Energy Date 2/25/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 416695-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System SI Code Class 1
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
11 ACCUM TO RCS LOOP A COLD LEG	Anchor Darling			SI-6-3		Corrected	<input type="checkbox"/>

7. Description of Work Replaced the valve disc.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-040

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/25/13

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 17 NOV 12 to 01 MAR 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 ANI MD 01924  
 Inspector's Signature National Board, Province and Endorsements

Date March 01, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-041

9. Remarks Pre-Service VT-1 exam recorded on report 2012V132.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/16/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 19 NOV 12 to 23 JAN 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions IBORS A.N.I. MN. 21924  
National Board, Province and Endorsements

Date Jan. 30, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-042

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
Signed [Signature], ASME Program Engineer Date 3/13/13  
Owner or Owner's Designee, Title \_\_\_\_\_

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 19NOV12 to 14MAR13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A-1 MJ 01924  
Inspector's Signature National Board, Province and Endorsements  
Date March 14, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-043

1. Owner NSPM d/b/a Xcel Energy Date 1/24/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 467778-01, EC-21095
3. Work Performed by Owner Repair Organization P.O. No., Job No., etc  
Same Type Code Symbol Stamp N/A  
Address Authorization N/A  
Address Expiration Date N/A
4. Identification of System CL Code Class 3
5. (a) Applicable Construction Code B31.1, 1989 Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
CL System piping segment				20-CL-7		Corrected	<input type="checkbox"/>

7. Description of Work Replaced piping segment and associated flange fasteners.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure NOP psl Test Temp. NOT °F  
Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-043

9. Remarks VT-2 leakage test recorded on report BOP-VT-12-140

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/24/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 20 NOV 12 to 24 JAN 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 md. 21924  
Inspector's Signature National Board, Province and Endorsements  
Date Jan. 24, 2013

# PRAIRIE ISLAND NUCLEAR GENERATING PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-044

<p>1. Owner <u>NSPM d/b/a Xcel Energy</u></p> <p style="margin-left: 150px;">Name _____</p> <p>2. Plant <u>Prairie Island Nuclear Generating Plant</u></p> <p style="margin-left: 150px;">Name _____</p> <p style="margin-left: 150px;">1717 Wakonade Dr. E, Welch Minnesota 55089</p> <p style="margin-left: 150px;">Address _____</p> <p>3. Work Performed by <u>Owner</u></p> <p style="margin-left: 150px;">Name _____</p> <p style="margin-left: 150px;">Same _____</p> <p style="margin-left: 150px;">Address _____</p> <p>4. Identification of System <u>CC</u></p> <p>5. (a) Applicable Construction Code <u>ASME IIIC</u>, 1968 <span style="float: right;">Edition/Addenda _____</span></p> <p style="margin-left: 150px;">Addenda <u>n/a</u> <span style="float: right;">Code Cases <u>n/a</u></span></p> <p style="margin-left: 150px;">(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>1998E / 2000A</u></p> <p style="margin-left: 150px;">(c) Applicable Section XI Code Cases <u>None</u></p>	<p>Date <u>2/26/2013</u></p> <p>Sheet <u>1</u> of <u>2</u></p> <p><u>372187-05</u></p> <p style="text-align: center;">Repair Organization P.O. No., Job No., etc</p> <p>Type Code Symbol Stamp <u>N/A</u></p> <p>Authorization <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p> <p>Code Class <u>3</u></p>
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6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
11 CC Surge Tank	Buffalo Tank	X8590NC		153-071	1969	Corrected	<input checked="" type="checkbox"/>

7. Description of Work Replaced 2 manway fastener sets.

8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt

Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-044

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/26/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period Jan 01 2012 to 13 MAR 2013 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.I. mn 21924  
Inspector's Signature National Board, Province and Endorsements

Date March 13, 2013



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-045

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp   N/A  

Certificate of Authorization No.   N/A   Expiration Date \_\_\_\_\_

Signed   *[Signature]*  , ASME Program Engineer Date   2/27/13  , \_\_\_\_\_

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of   Minnesota   and employed by   HSB Insp. and Ins. Co. of Connecticut   of   Hartford Conn.   have inspected the components described in this Owner's Report during the period   28 Nov 12   to   27 FEB 13  , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

  *[Signature]*   Commissions   12085 A-N-1     MN 91924    
 Inspector's Signature National Board, Province and Endorsements

Date   February 27, 2013



**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-046

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
 Signed [Signature], ASME Program Engineer Date 2/26/13, \_\_\_\_\_  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 28 Nov 12 to 11 MAR 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions Class 1 MS 11921  
 Inspector's Signature National Board, Province and Endorsements  
 Date March 11, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-047

1. Owner NSPM d/b/a Xcel Energy Date 2/22/2013
- Name \_\_\_\_\_
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2
- Name \_\_\_\_\_
- 1717 Wakonade Dr. E, Welch Minnesota 55089 399970-01, IEE 2011-099
- Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc \_\_\_\_\_
3. Work Performed by Owner Type Code Symbol Stamp N/A
- Name \_\_\_\_\_ Authorization N/A
- Same Expiration Date N/A
- Address \_\_\_\_\_ Code Class 3
4. Identification of System AF
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda \_\_\_\_\_
- Addenda n/a Code Cases n/a
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A
- (c) Applicable Section XI Code Cases None
6. Identification of Components \_\_\_\_\_

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr BUILT	Corrected, Removed, or Installed	ASME Code Stamp
11 TD AFW PMP DISCH Check Valve	Powell			AF-15-9		Corrected	<input type="checkbox"/>

7. Description of Work Replaced disc with stronger material.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt
- Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-047

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/22/13

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 29 NOV 12 to 26 FEB 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 12085 A-N-1 mn 21924  
National Board, Province and Endorsements

Date February 27, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-048

1. Owner NSPM d/b/a Xcel Energy Date 12/12/2012
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 414263-01, IEE-2012-123  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System VC Code Class 2
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
CHG LN TO 11 REGEN HX CV	Masonellian			CV-31198		Corrected	<input type="checkbox"/>

7. Description of Work Replace the valve plug.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-048

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 12/12/12

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 09 Nov 12 to 17 Jan 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 12095 A.N.I. mn 21924  
National Board, Province and Endorsements

Date January 17, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-049

9. Remarks VT-2 recored on report # BOP-VT-13-003

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 3/13/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 23 Nov 12 to 13 MAR 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 mn 21924  
Inspector's Signature National Board, Province and Endorsements

Date March 13, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-051

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/30/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 03 DEC 12 to 30 JAN 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.1 md 21924  
Inspector's Signature National Board, Province and Endorsements

Date January 30, 2013





**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-052

9. Remarks VT-1 exam recorded on PSI report number 2012V144.

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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/20/13

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 04DEC12 to 21FEB13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions 12085 A.N.1 md 21924  
National Board, Province and Endorsements

Date [Signature] February 21, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-053

1. Owner NSPM d/b/a Xcel Energy Date 1/15/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 422883-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System CL Code Class 3
5. (a) Applicable Construction Code B31.1, 1987 Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
Piping to Valve Flange Fasteners within CL piping	n/a			10-CL-49/CV-39203		Corrected	<input type="checkbox"/>

7. Description of Work Replaced the flange fasteners due to corrosion.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-053

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/15/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 05 DEC 12 to 24 JAN 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.I MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date January 24, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-054

1. Owner NSPM d/b/a Xcel Energy Date 3/1/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 459748-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System MS Code Class 2
5. (a) Applicable Construction Code B16.34, n/a Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
12 SG MS ISOL EQLZG MV	Powell			MV-32047		Corrected	<input type="checkbox"/>

7. Description of Work Tack welded plug to plug nut due to the valve stem replacement.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-054

9. Remarks \_\_\_\_\_  
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**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
 Signed [Signature], ASME Program Engineer Date 3/1/13  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 06 DEC 12 to 06 MAR 13 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 1905 A.N.I MD 21924  
 Inspector's Signature National Board, Province and Endorsements  
 Date March 06, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-055

1. Owner NSPM d/b/a Xcel Energy Date 3/4/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 467950-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System CC Code Class 3
5. (a) Applicable Construction Code B31.1, 1967 Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
CC piping support	Basic Enginners			1-CCH-72		Corrected	<input type="checkbox"/>

7. Description of Work Replaced CC piping support eye rod to meet the designed configuration.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-055

9. Remarks Preservice VT-3 exam recorded on report 2012V153  
 \_\_\_\_\_  
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 \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A  
 Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_  
 Signed [Signature], ASME Program Engineer Date 3/4/13  
 Owner or Owner's Designee, Title \_\_\_\_\_

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 13DEC12 to 05MAR13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 2005 A.N.1 MN 21924  
 Inspector's Signature National Board, Province and Endorsements  
 Date March 05, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-056

1. Owner NSPM d/b/a Xcel Energy Date 2/22/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 469996-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System RC Code Class 1
5. (a) Applicable Construction Code ASME III, Class 1, 1983 Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None

6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
Reactor Vent Gas Piping				1-RC-82		Corrected	<input type="checkbox"/>

7. Description of Work Cut out and rewelded pipe to fitting to attain proper flange to flange alignment.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-056

9. Remarks

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CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/22/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 4 DEC 12 to 25 FEB 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.I. MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date February 25, 2013

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-057

1. Owner NSPM d/b/a Xcel Energy Date 1/18/2013
2. Plant Prairie Island Nuclear Generating Plant Sheet 1 of 2  
1717 Wakonade Dr. E, Welch Minnesota 55089 468269-01  
Address Repair Organization P.O. No., Job No., etc
3. Work Performed by Owner Type Code Symbol Stamp N/A  
Same Authorization N/A  
Address Expiration Date N/A
4. Identification of System RC Code Class 1
5. (a) Applicable Construction Code ASME III, Class 1, 1983 Edition/Addenda  
Addenda n/a Code Cases n/a  
(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998E / 2000A  
(c) Applicable Section XI Code Cases None
6. Identification of Components

Component Name	Manufacturer Name	Manufacturer Serial #	Nat'l Bd #	Other ID	Yr Built	Corrected, Removed, or Installed	ASME Code Stamp
Reactor Vent Gas Piping				1-RC-82		Corrected	<input type="checkbox"/>

7. Description of Work Shortened pipe section to obtain the proper slope condition.
8. Tests conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Exempt   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Other: n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 1-27-057

9. Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 1/18/13  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 14 DEC 12 to 23 JAN 13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.N.I. MN 21924  
Inspector's Signature National Board, Province and Endorsements

Date January 23, 2013



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 1-27-058

9. Remarks

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date \_\_\_\_\_

Signed [Signature], ASME Program Engineer Date 2/22/13  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by HSB Insp. and Ins. Co. of Connecticut of Hartford Conn. have inspected the components described in this Owner's Report during the period 17DEC12 to 25FEB13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions 12085 A.W.1 mn 21924  
Inspector's Signature National Board, Province and Endorsements

Date February 25, 2013